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MASTER INDEX

VOLUMES B1 – B10

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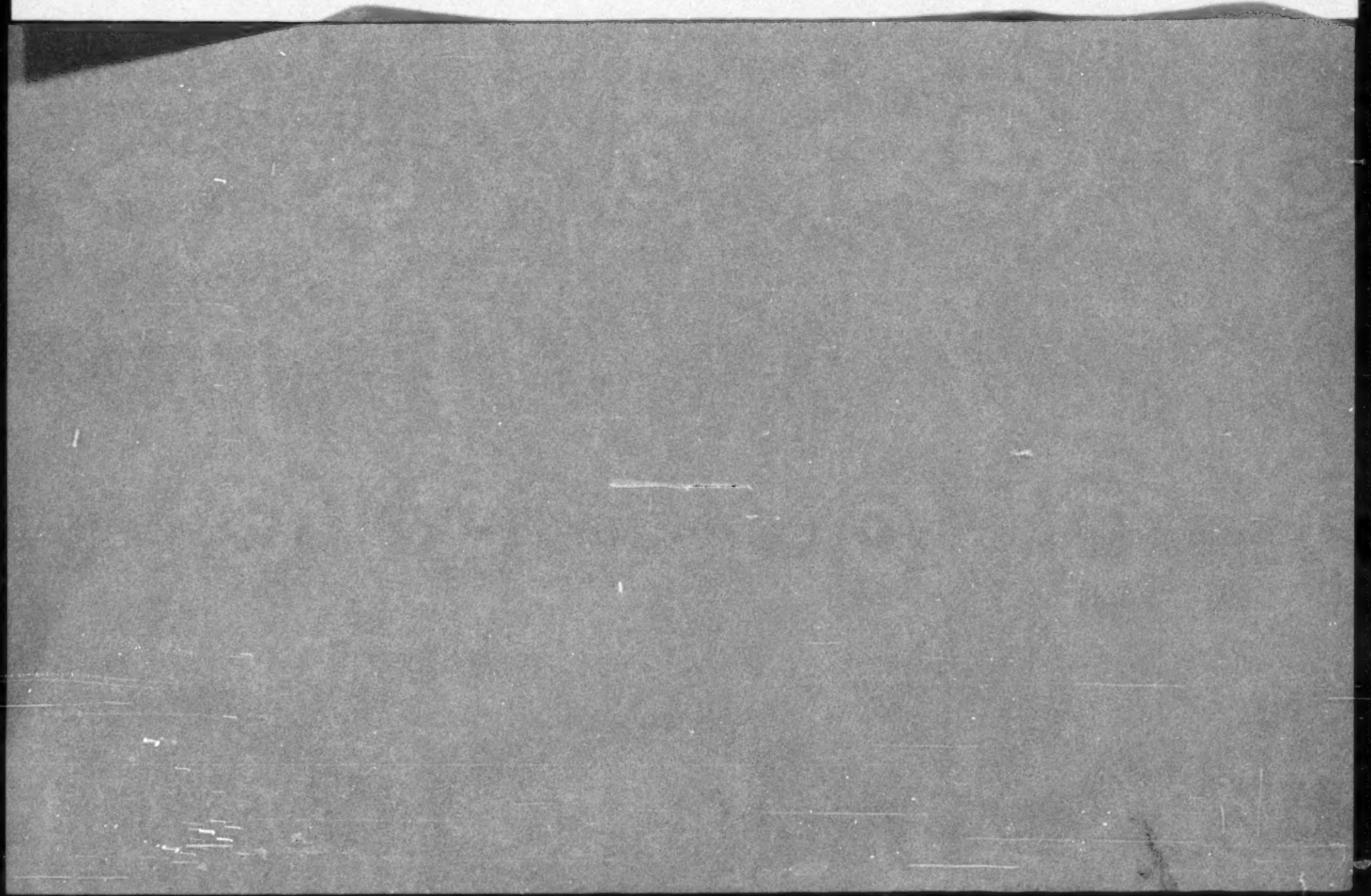

MASTER INDEX

VOLUMES B1 – B10

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AUTHOR INDEX

Abul-Magd, A.Y., Total cross sections of high-energy particles on atomic nuclei — B8 (1968) 638

Acharya, R., Mass of kappa meson from spectral function sum rules — B10 (1969) 208

Adam, G., see Bar-Avraham — B1 (1967) 49

Adamson, A.M., see D'Andlau — B5 (1968) 693

Ader, J.P., M.Capdeville, Ph.Salin, A Regge pole model fit of pion and K meson photoproduction — B3 (1967) 407

Aderholz, M., M.Deutschmann, E.Keppel, G.Kraus, H.Weber, U. Gensch, C.Grote, S.Nowak, D.Pose, M.Bardadin-Otwinowska, T.A.Byer, V.T.Cocconi, E.Flaminio, J.D.Hansen, G.Kellner, U.Kruse, M.Markytan, D.R.O.Morrison, K.Zalewski, D.P. Dallman, S.J.Goldsack, N.C.Mukherjee, A.Frohlich, W.Kittel, G.Otter, P.Porth, I.Wacek, $K^*(890)$ production in 10 GeV/c K^-p interactions and comparison with absorption and Regge pole models — B5 (1968) 567

Aderholz, M., J.Bartsch, E.Keppel, G.Kraus, R.Speth, C.Grote, J.Klugow, D.Pose, H.Schiller, M.Bardadin-Otwinowska, H. Böttcher, T.A.Byer, V.T.Cocconi, J.D.Hansen, G.Kellner, U.Kruse, J.Łoskiewicz, M.Markytan, D.R.O.Morrison, S.J. Goldsack, M.E.Mermikides, N.C.Mukherjee, W.Kittel, G.Otter, P.Porth, I.Waceck, H.Wahl, Lambda production in 10 GeV/c K^-p interactions — B5 (1968) 606

Aderholz, M., M.Deutschmann, E.Keppel, G.Kraus, H.Weber, U. Gensch, C.Grote, S.Nowak, D.Pose, H.Böttcher, T.A.Byer, V.T.Cocconi, E.Flaminio, J.D.Hansen, G.Kellner, U.Kruse, J.Łoskiewicz, M.Markytan, D.R.O.Morrison, N.C.Barford, D.P.Dallman, S.J.Goldsack, N.C.Mukherjee, W.Kittel, C. Kraft, D.Kuhn, G.Otter, I.Waceck, Total and differential cross sections in 10 GeV/c K^-p interactions — B7 (1968) 111

Aderholz, M., M.Deutschmann, E.Keppel, G.Kraus, H.Weber, C. Grote, H.H.Kaufmann, S.Nowak, M.Walter, H.Böttcher, T. Byer, V.T.Cocconi, P.F.Dalpiaz, J.D.Hansen, G.Kellner, W. Kittel, M.Markytan, A.Mihul, D.R.O.Morrison, H.Tøfte, Structure in differential cross section distributions of two-body reactions in 8 GeV/c π^+p interactions — B8 (1968) 45

Aderholz, M., J.Bartsch, M.Deutschmann, G.Kraus, R.Steinberg, C.Grote, S.Nowak, E.Ryseck, M.Walter, K.W.J.Barnham, V.T. Cocconi, J.D.Hansen, G.Kellner, W.Kittel, D.R.O.Morrison, K. Paler, H.Tøfte, Quark-model predictions for joint decay distributions in π^+p double resonance production reactions at 8 GeV/c — B8 (1968) 485

Aditya, P.K., S.K.Jha, S.Lokanathan, K.B.Bhalla, On the neutrons produced in 24 GeV proton interactions in graphite — B5 (1968) 250

Ahmed, M.A., The commutation of axial charge with axial divergence — B1 (1967) 679

Ahmed, M.A., Current algebra and the σ-meson — B4 (1968) 233

Ahmed, M.A., ρ-meson couplings and current algebra — B4 (1968) 249

Alam, M.A., R.G.Roberts, The D_{13} coupling constant — B3 (1967) 192

Albrecht, K.F., see Bartsch — B8 (1968) 9

Albright, J.R., see Reynolds — B6 (1968) 633

Aleksandrov, Yu.M., V.F.Grushin, E.M.Leikin, Analysis of angular distributions for the process $\gamma p \rightarrow n\pi^+$ in the region of 230-350 MeV — B10 (1969) 145

Alexander, G., A.Gal, A.Gersten, Λ-nucleon spin-orbit force and the Λ-^{4}He elastic scattering — B2 (1967) 1

Alexander, G., O.Benary, U.Maor, Data compilation on baryon-baryon interactions. (I) Proton-proton collisions between 1 and 32 GeV/c — B5 (1968) 1

Alexander, G., O.Benary, U.Maor, Data compilation of baryon-baryon interactions. (II) Proton-neutron collisions between 1 and 27 GeV/c — B7 (1968) 281

Alexander, G., O.Benary, U.Karshon, U.Maor, Data compilation of baryon-baryon interactions. (III) Hyperon-proton collisions — B10 (1969) 554

Ali, S., L.P.Kok, The $\Lambda\Lambda^{11}$Be interpretation of the first discovered ΛΛ hypernuclear event — B3 (1967) 547

Ali, S., see Grypeos — B4 (1968) 335

Alitti, J., see Kayas — B5 (1968) 169

Allen, J.E., see Gajewski — B1 (1967) 105

Allen, J.E., see Harmsen — B4 (1968) 277

Allen, J.E., see Bohm — B4 (1968) 511

Allen, J.E., see Bohm — B9 (1969) 1

Allison, W.W.M., see Sisterson — B6 (1968) 205

Allkofer, O.C., R.D.Andresen, The total photonuclear cross section at high energies as determined from the neutron production by fast muons — B8 (1968) 402

Alpers, W., The decomposition of Bethe-Salpeter amplitudes into standard covariants and invariant amplitudes — B6 (1968) 353

Alpers, W., Erratum — B7 (1968) 174

Alt, E.O., P.Grassberger, W.Sandhas, Reduction of the three-particle collision problem to multi-channel two-particle Lippmann-Schwinger equations — B2 (1967) 167

Aly, H.H., H.J.W.Müller, K.Schilcher, Regge trajectories for even-power potentials — B3 (1967) 401

Alyea Jr., E.D., see Galloway — B8 (1968) 545

Andersson, B., The momentum space analytic function corresponding to one of the terms in the Bergman-Weil representation formula for the vertex function — B1 (1967) 581

Andersson, B., The Mercedes graph as a superposition of simpler graphs — B8 (1968) 654

Andersson, B., The Hankel-transformed perturbation-theory functions — B10 (1969) 527

Andreev, I.V., I.M.Dremin, I.M.Gramenitskii, High-energy pp large-angle scattering — B10 (1969) 137

Andresen, R.D., see Allkofer — B8 (1968) 402

Angelescu, N., E.Rădescu, On the production of isobars in a current algebra approach — B1 (1967) 196

Antoniou, N.G., On the forward dispersion relation of the amplitude $\pi^+\pi^0 \rightarrow \pi^+\pi^0$ — B2 (1967) 648

Antoniou, N.G., C.H.L.Smith, Low-energy π-π scattering — B3 (1967) 277

Antoniou, N.G., C.Palev, M.Samiullah, O(3,1) symmetry and the forward Compton scattering of virtual photons at high energies — B4 (1968) 479

Antoniou, N.G., S.R.Komy, C.P.Palev, M.Samiullah, O(3.1) symmetry and the high-energy reaction $\pi N \rightarrow \eta N^*(1236)$ — B5 (1968) 195

Armenteros, R., see Tripp — B3 (1967) 10

Armenteros, R., M.Ferro-Luzzi, D.W.G.Leith, R.Levi-Setti, A.Minten, R.D.Tripp, H.Filthuth, V.Hepp, E.Kluge, H.Schneider, R.Barloutaud, P.Granet, J.Meyer, J.P.Porte, Formation of resonant states in $K^-p \rightarrow \bar{K}N$ between 780 and 1220 MeV/c — B3 (1967) 592

Armenteros, R., P. Baillon, C. Bricman, M. Ferro-Luzzi, H.K. Nguyen, V. Pelosi, D.E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross, R. Barloutaud, P. Granet, J. Meyer, J.L. Narjoux, F. Pierre, J.P. Porte, J. Prevost, Energy-independent partial-wave analysis of $\bar{K}N \to \Lambda\pi$ between 600 and 1200 MeV/c B8 (1968) 183

Armenteros, R., P. Baillon, C. Bricman, M. Ferro-Luzzi, D.E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte, J. Prevost, The reactions $K^-p \to K^-p$ and $K^-p \to \bar{K}^0n$ between 600 and 1200 MeV/c B8 (1968) 195

Armenteros, R., P. Baillon, C. Bricman, M. Ferro-Luzzi, H.K. Nguyen, V. Pelosi, D.E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross, R. Barloutaud, P. Granet, J. Meyer, J.L. Narjoux, F. Pierre, J.P. Porte, J. Prevost, Study of the reaction $K^-N \to \Sigma\pi\pi$ between 600 and 1200 MeV/c B8 (1968) 216

Armenteros, R., P. Baillon, C. Bricman, M. Ferro-Luzzi, D.E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte, J. Prevost, Partial-wave analysis of the reaction $K^-p \to \Sigma\pi$ between 0.6 and 1.0 GeV/c B8 (1968) 223

Armenteros, R., M. Ferro-Luzzi, D.W.G.S. Leith, R. Levi-Setti, A. Minten, R.D. Tripp, H. Filthuth, V. Hepp, E. Kluge, H. Schneider, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte, The $\bar{K}N$ interaction from 800 to 1200 MeV/c (I). K^-p cross sections B8 (1968) 233

Armenteros, R., P. Baillon, C. Bricman, M. Ferro-Luzzi, D.E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte, J. Prevost, Erratum B10 (1969) 432

Armenteros, R., P. Baillon, A. Minten, N.H. Khanh, V. Pelosi, M. Crozon, C. Louedec, J.L. Narjoux, F. Pierre, The formation of $Y_1^*(1665)$ in the reaction $K^-n \to \Sigma^0\pi^0$ B10 (1969) 459

Arnowitt, R., M.H. Friedman, P. Nath, On chiral algebra, meson dominance, and the soft-pion evaluation of g_ρ B5 (1968) 115

Arnowitt, R., M.H. Friedman, P. Nath, Hard-meson current algebra analysis of the $K_{\ell 3}$ decay B10 (1969) 578

Artykov, I.Z., V.S. Barashenkov, S.M. Eliseev, Intranuclear cascades with many-particle interactions B6 (1968) 11

Artykov, I.Z., V.S. Barashenkov, Meson-nucleus interactions at very high energies B6 (1968) 628

Asherova, R.M., Yu.F. Smirnov, Projection operators and Clebsch-Gordan coefficients for the group SU_3 B4 (1968) 399

Astier, A., see Conforto B3 (1967) 469

Astier, A., see D'Andlau B5 (1968) 693

Astier, A., J. Cohen-Ganouna, M. Della Negra, B. Maréchal, L. Montanet, J. Zoll, M. Baubillier, J. Duboc, F. Lévy, R. James, D.N. Edwards, R. Donald, Existence and properties of the C-meson as observed in $\bar{p}p$ annihilations at rest B10 (1969) 65

Ataka, Y., The Lee model with a symmetry and its renormalizability B10 (1969) 612

Atkinson, D., A proof of the existence of functions that satisfy exactly both crossing and unitarity. (I) Neutral pion-pion scattering. No subtractions B7 (1968) 375

Atkinson, D., A proof of the existence of functions that satisfy exactly both crossing and unitarity (II). Charged pions. No subtractions B8 (1968) 377

Baacke, J.. Determination of Regge-pole residue functions from fixed-t dispersion relations B9 (1969) 324
Baber, S.R., W.F. Nash, B.C. Rastin, The momentum spectrum of muons at sea-level in the range 3-1000 GeV/c B4 (1968) 539
Baber, S.R., W.F. Nash, B.C. Rastin, The positive-negative ratio of muons at sea-level in the range 3-360 GeV B4 (1968) 549
Baillon, P., see Armenteros B8 (1968) 183
Baillon, P., see Armenteros B8 (1968) 195
Baillon, P., see Armenteros B8 (1968) 216
Baillon, P., see Armenteros B8 (1968) 223
Baillon, P., see Armenteros B10 (1969) 432
Baillon, P., see Armenteros B10 (1969) 459
Baker, W.F., see Banaigs B8 (1968) 31
Baker, W.F., P.J. Carlson, V. Chabaud, A. Lundby, J. Banaigs, J. Berger, C. Bonnel, J. Duflo, L. Goldzahl, F. Plouin, Elastic backward scattering of pions and kaons B9 (1969) 249
Baker, W.F., see Banaigs B9 (1969) 640
Bakke, F.H., A. Reitan, Charge exchange pion scattering by ^{13}C B10 (1969) 43
Balachandran, A.P., M.G. Gundzik, F. Nicodemi, Current commutators and mass extrapolations, theory and applications B6 (1968) 557
Balachandran, A.P., J. Nuyts, Group analysis of scattering amplitudes; the group SU(1,1) B9 (1969) 81
Balashov, V.V., G.Ya. Korenman, V.L. Korotkih, V.N. Fetisov, Excitation of the giant dipole resonance in μ-capture B1 (1967) 158
Baluni, V., On the high-energy behaviour of the differential cross section of certain inelastic processes involving leptons B7 (1968) 167
Banaigs, J., J. Berger, C. Bonnel, J. Duflo, L. Goldzahl, F. Plouin, W.F. Baker, P.J. Carlson, V. Chabaud, A. Lundby, Experimental evidence for the onset of baryon exchange in πp backward scattering below 3 GeV/c B8 (1968) 31
Banaigs, J., see Baker B9 (1969) 249
Banaigs, J., J. Berger, C. Bonnel, J. Duflo, L. Goldzahl, F. Plouin, W.F. Baker, P.J. Carlson, V. Chabaud, A. Lundby, $K^{\pm}$p elastic scattering at 3.55 GeV/c B9 (1969) 640
Barashenkov, V.S., see Artykov B6 (1968) 11
Barashenkov, V.S., see Artykov B6 (1968) 628
Bar-Avraham, E., R. Fox, Y. Porath, G. Adam, G. Frieder, The neutron-neutron scattering length from the reaction n+d $\rightarrow$ 2n+p B1 (1967) 49
Bardadin-Otwinowska, M., see Bartsch B4 (1968) 326
Bardadin-Otwinowska, M., see Boesebeck B4 (1968) 501
Bardadin-Otwinowska, M., see Aderholz B5 (1968) 567
Bardadin-Otwinowska, M., see Aderholz B5 (1968) 606
Bardadin-Otwinowska, M., see Bartsch B8 (1968) 9
Bardadin-Otwinowska, M., see Junkmann B8 (1968) 471
Barford, N.C., see Aderholz B7 (1968) 111
Barger, V., M. Olsson, D.D. Reeder, Asymptotic projections of scattering models B5 (1968) 411
Barletta, W.A., D.M. Harmsen, Systematic investigation of mesonic hypernuclei with four and more decay prongs B10 (1969) 99
Barloutaud, R., see Tripp B3 (1967) 10
Barloutaud, R., see Armenteros B3 (1967) 592
Barloutaud, R., see Armenteros B8 (1968) 183
Barloutaud, R., see Armenteros B8 (1968) 195
Barloutaud, R., see Armenteros B8 (1968) 216
Barloutaud, R., see Armenteros B8 (1968) 223
Barloutaud, R., see Armenteros B8 (1968) 233

Barloutaud, R., Duong Nhu Hoa, J. Griselin, D. W. Merrill, J. C. Scheuer, W. Hoogland, J. C. Kluyver, A. Minguzzi-Ranzi, A. M. Rossi, B. Haber, E. Hirsch, J. Goldberg, M. Laloum, Study of the reactions $K^-n \to \Lambda\pi^-$ and $K^-n \to \Sigma^0\pi^0$ at 3 GeV/c B9 (1969) 493
Barloutaud, R., see Armenteros B10 (1969) 432
Barloutaud, R., A. Derem, J. Griselin, D. W. Merrill, J. C. Scheuer, J. Goldberg, A. Rougé, S. Focardi, Forward scattering in some two-body reactions involving $\frac{1}{2}^+$ baryons and 0^- mesons at 3 GeV/c B10 (1969) 683
Barlow, J., see D'Andlau B5 (1968) 693
Barnes, K. J., R. M. Williams, The γNN^* coupling from current algebra B3 (1967) 424
Barnham, K. W. J., see Junkmann B8 (1968) 471
Barnham, K. W. J., see Aderholz B8 (1968) 485
Bartke, J., O. Czyżewski, Pion production in pion-proton collisions at 4-11 GeV/c multiplicity distribution and a possible qualitative interpretation of the baryon angular distribution B5 (1968) 582
Bartsch, J., M. Deutschmann, M. Hermanns, E. Keppel, R. Speth, C. Grote, J. Klugow, D. Pose, H. Schiller, M. Bardadin-Otwinowska, V. T. Cocconi, T. Byer, J. D. Hansen, J. Łoskiewicz, G. Kellner, U. Kruse, D. R. O. Morrison, H. Tøfte, D. P. Dallman, S. J. Goldsack, M. E. Mermikides, D. Pearce, A. Frohlich, W. Kittel, G. Otter, I. Waceck, H. Wahl, Ξ^-, Ω^- and antibaryon production in 10 GeV/c K^-p interactions B4 (1968) 326
Bartsch, J., see Aderholz B5 (1968) 606
Bartsch, J., E. Keppel, G. Kraus, R. Speth, N. Tsanos, C. Grote, K. Lanius, S. Nowak, R. Ryseck, H. Böttcher, V. T. Cocconi, J. D. Hansen, G. Kellner, U. Kruse, A. Mihul, D. R. O. Morrison, V. I. Moskalev, H. Tøfte, Observation and analysis of the 1660 MeV 3π-resonance "A_3" in 8 GeV/c π^+p interactions B7 (1968) 345
Bartsch, J., M. Deutschmann, E. Keppel, G. Kraus, K. Rumpf, R. Speth, K. F. Albrecht, C. Grote, K. Lanius, D. Pose, H. Schiller, M. Bardadin-Otwinowska, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, M. Markytan, D. R. O. Morrison, H. Tøfte, D. P. Dallman, S. J. Goldsack, M. E. Mermikedes, A. Fröhlich, W. Kittel, W. Majerotto, G. Otter, H. Wahl, Analysis of the $K^*(1320)$ and L-meson produced in 10 GeV/c K^-p interactions B8 (1968) 9
Bartsch, J., see Aderholz B8 (1968) 485
Barut, A. O., D. H. Tchrakian, On the superconvergence of amplitudes involving massless particles B3 (1967) 21
Barut, A. O., Pion form factor and mass spectrum of bosons B4 (1968) 455
Barut, A. O., K. C. Tripathy, Radiative decay of boson resonances B7 (1968) 125
Barut, A. O., S. Malin, Form factor and mass correction to weak decay amplitudes B9 (1969) 194
Bassompierre, G., Y. Goldschmidt-Clermont, A. Grant, V. P. Henri, B. Jongejans, D. Linglin, F. Muller, H. Piotrowska, J. M. Perreau, I. Saitov, R. Sekulin, G. Wolf, W. De Beare, J. Debaisieux, E. De Wolf, P. Dufour, F. Grard, J. Heughebaert, L. Pape, P. Peeters, F. Verbeure, R. Windmolders, Study of multi-body final states in K^+p reactions at an incident momentum of 5 GeV/c B9 (1969) 295
Bathow, G., E. Freytag, K. Tesch, Measurements on 6.3 GeV electromagnetic cascades and cascade-produced neutrons B2 (1967) 669
Baton, J. P., G. Laurens, J. Reignier, Etude de la diffusion élastique $\pi^-\pi^0$ par la méthode d'extrapolation de Chew et Low à partir de la réaction $\pi^-p \to \pi^-\pi^0p$ à 2.77 GeV/c B3 (1967) 349
Baubillier, M., see Conforto B3 (1967) 469
Baubillier, M., see Astier B10 (1969) 65
Baumann, G., see Gerber B5 (1968) 75

Beaney, J., see Burgun — B8 (1968) 447
Bechdolff, A., see Gerber — B5 (1968) 75
Bedford, D., Modified Lorentz-pole analysis of some scattering and reaction amplitudes — B10 (1969) 410
Bednář, M., J. Tolar, The dynamical group of the SU(3)-symmetric strong coupling theory — B5 (1968) 255
Beisel, H., see Brall — B1 (1967) 668
Bell, J.S., D.G. Sutherland, Current algebra and $\eta \to 3\pi$ — B4 (1968) 315
Benary, O., see Alexander — B5 (1968) 1
Benary, O., see Alexander — B7 (1968) 281
Benary, O., see Alexander — B10 (1969) 554
Bender, I., V. Linke, H.J. Rothe, First and second class weak hadronic currents and their implications for $K_{\ell 3}$ decays in an extended Cabibbo model — B9 (1969) 141
Bennett, G., see Igo — B3 (1967) 181
Berends, F.A., A. Donnachie, G.C. Oades, Analysis of K_{e4} decay. evidence for a vector current and its consequences — B3 (1967) 569
Berends, F.A., A. Donnachie, D.L. Weaver, Photoproduction and electroproduction of pions
(I) Dispersion relation theory — B4 (1968) 1
(II) Photopion production below 500 MeV — B4 (1968) 54
(III) ω and B exchange in low energy π^0 photoproduction — B4 (1968) 103
Berger, J., see Banaigs — B8 (1968) 31
Berger, J., see Baker — B9 (1969) 249
Berger, J., see Banaigs — B9 (1969) 640
Berlinghieri, J.C., M.S. Farber, T. Ferbel, B.E. Forman, A.C. Melissinos, P.F. Slattery, H. Yuta, Quasi-two-body reactions in 13 GeV/c K^+p interactions — B8 (1968) 333
Bertero, M., G.A. Viano, Coulomb effects on the singularity at $k = 0$ of the partial wave amplitudes — B1 (1967) 317
Bertero, M., H.J. Kreuzer, Bound on the double spectral function for a class of Yukawian potentials — B3 (1967) 195
Bertero, M., H.J. Kreuzer, Proof of a conjecture on the behaviour of the scattering amplitude for large imaginary angular momenta — B5 (1968) 619
Berthon, A., see Burgun — B8 (1968) 447
Betourne, C., C. Feautrier, J. Perez-Y-Jorba, D. Treille, A measurement of longitudinal photon contribution in pion electroproduction from protons — B5 (1968) 355
Bettini, A., see Donald — B6 (1968) 174
Beznogikh, G.G., B.A. Shahbazian, N.F. Trouskova, Negative pion-nucleon interactions at 3.85 GeV/c using nuclear emulsions in a magnetic field — B6 (1968) 373
Bhaduri, R.K., Y. Nogami, W. Van Dijk, On the binding of Σ^-nn — B1 (1967) 269
Bhaduri, R.K., Y. Nogami, W. Van Dijk, Erratum — B2 (1967) 316
Bhaduri, R.K., B.A. Loiseau, Y. Nogami, Effect of three-body ΛNN long-range potential in nuclear matter — B3 (1967) 380
Bhalla, K.B., see Aditya — B5 (1968) 250
Białas, A., K. Zalewski, Systematics of the relations following from the quark model
(I) Relations between differential cross sections — B6 (1968) 449
(II) Constraints on decay distributions of resonances — B6 (1968) 465
(III) Comparison of decay distributions of resonances produced in different reactions — B6 (1968) 478
Białas, A., A. Guła, B. Muryn, K. Zalewski, Systematics of the relations following from the quark model (IV). Photoproduction — B6 (1968) 483
Białas, A., S. Pokorski, High-energy behaviour of the Bardakçi-Ruegg amplitude — B10 (1969) 399
Bishari, M., A.Y. Schwimmer, Couplings of particles by means of superconvergence — B5 (1968) 641

Bishari, M., A. Y. Schwimmer, Connection between superconvergence and algebra in Goebel's static model B6 (1968) 149
Bishop, J. M., A. T. Goshaw, A. R. Erwin, W. D. Walker, Production of $K^*(1300)$ and $K^*(1400)$ resonances in K^+p interactions at 3.5 GeV/c B9 (1969) 403
Bizard, G., F. Bonthonneau, J. Deregel, J. Duchon, J. M. Fontaine, G. Landaud, J. L. Laville, F. Lefèbvres, F. Lemeilleur, J. P. Patry, H. Saur, J. Yonnet, Mesure de la polarisation du proton dans la diffusion élastique $\pi^{\pm}p$ entre 550 et 1025 MeV B5 (1968) 515
Bjørneboe, J., Z. Koba, Crossing relations of double Breit system helicity amplitudes B7 (1968) 53
Blair, W. M. R., see Sisterson B6 (1968) 205
Blin-Stoyle, R. J., P. Herczeg, Second-class currents and the weak nucleon-nucleon interaction B5 (1968) 291
Block, M. M., D. Koetke, An impulse model theory of π-^{4}He scattering B5 (1968) 451
Blomer, R., see Wiegand B9 (1969) 106
Blum, W., see Sisterson B6 (1968) 205
Böckmann, K., see Brall B1 (1967) 668
Böckmann, K., see Junkmann B8 (1968) 471
Böckmann, K., see Hilpert B8 (1968) 535
Boesebeck, K., M. Deutschmann, G. Kraus, R. Schulte, H. Weber, C. Grote, K. Lanius, S. Nowak, E. Ryseck, M. Bardadin-Otwinowska, H. Böttcher, T. Byer, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, M. Markytan, D. R. O. Morrison, H. Tøfte, Resonance production in 8 GeV/c π^+ interactions in hydrogen B4 (1968) 501
Bogan Jr., A., L. L. Foldy, The two-particle correlation function in a finite Fermi gas model B4 (1968) 485
Bogan Jr., A., The systematics of muon capture in an independent-particle shell model B5 (1968) 431
Boguta, J., Crossing symmetric, Regge-behaved amplitude for a general trajectory B10 (1969) 319
Böhm, A., P. Darriulat, C. Grosso, V. Kaftanov, K. Kleinknecht, H. L. Lynch, C. Rubbia, H. Ticho, K. Tittel, The phase difference between $K_L \to \pi^+\pi^-$ and $K_S \to \pi^+\pi^-$ decay amplitudes B9 (1969) 605
Bohm, G., J. Klabuhn, U. Krecker, F. Wysotski, G. Coremans, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. O'Sullivan, D. Stanley, D. H. Davis, E. R. Fletcher, S. P. Lovell, N. C. Roy, J. H. Wickens, A. Filipkowski, G. Garbowska-Pniewska, T. Pniewski, E. Skrzypczak, T. Sobczak, J. E. Allen, V. A. Bull, A. P. Conway, A. Fishwick, P. V. March, A determination of the binding-energy values of light hypernuclei B4 (1968) 511
Bohm, G., J. Klabuhn, U. Krecker, F. Wysotzki, G. Coremans, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. O'Sullivan, D. Stanley, D. H. Davis, E. R. Fletcher, S. P. Lovell, N. C. Roy, J. H. Wickens, A. Filipkowski, G. Garbowska-Pniewska, T. Pniewski, E. Skrzypczak, T. Sobczak, J. E. Allen, V. A. Bull, A. P. Conway, A. Fishwick, P. V. March, The π^+ mesonic decays of light hypernuclei B9 (1969) 1
Bóna, P., see Pišút B1 (1967) 65
Bonn-Durham-Nijmegen-Paris-Strasbourg-Turin Collaboration, Test of absorption-model predictions in double resonance production by 5 GeV/c π^+ mesons on protons B7 (1968) 681
Bonnel, C., see Banaigs B8 (1968) 31
Bonnel, C., see Baker B9 (1969) 249
Bonnel, C., see Banaigs B9 (1969) 640

Bonnier, B., A model for S-wave pion-pion scattering from analyticity, unitarity and crossing symmetry B10 (1969) 467
Bonthonneau, F., see Bizard B5 (1968) 515
Bothin, W., see Brall B1 (1967) 668
Böttcher, H., see Brall B1 (1967) 668
Böttcher, H., see Boesebeck B4 (1968) 501
Böttcher, H., see Aderholz B5 (1968) 606
Böttcher, H., see Aderholz B7 (1968) 111
Böttcher, H., see Bartsch B7 (1968) 345
Böttcher, H., see Aderholz B8 (1968) 45
Bowcock, J.E., W.N. Cottingham, J.G. Williams, The analytic continuation of nucleon form factors B3 (1967) 95
Bowcock, J.E., Th. Kannelopoulos, The electromagnetic structure of the pion B4 (1968) 417
Bradley, R.H., see Reynolds B6 (1968) 633
Brall, U., R. Erbe, G. Reimann, E. Schüttler, W. Bothin, H. Böttcher, K. Lanius, A. Meyer, A. Pose, J. Schreiber, K. Böckmann, W. Johnssen, J. Moebes, H. Mück, B. Nellen, W. Tejessy, G. Harigel, G. Horlitz, E. Lohrmann, H. Meyer, W.P. Swanson, M.W. Teucher, G. Wolff, S. Wolff, D. Lüke, D. Pollmann, P. Söding, H. Spitzer, H. Beisel, H. Filthuth, H. Kolar, P. Steffen, P. Freund, N. Schmitz, J. Seyerlein, P. Seyboth, Laboratory angular and momentum distributions of protons, kaons and pions from photoproduction on hydrogen at energies up to 5.8 GeV B1 (1967) 668
Brandt, S., see Hilpert B8 (1968) 535
Braun, M.A., Conditions $Z = 0$ in scalar field theory B1 (1967) 277
Braun, M.A., The description of composite particles by means of conditions $Z = 0$ B5 (1968) 392
Braun, O., see Hilpert B8 (1968) 535
Breault, R.O., see McNulty B5 (1968) 181
Breitenlohner, P., H. Mitter, Analytic regularization and gauge invariance B7 (1968) 443
Brene, N., M. Roos, A. Sirlin, Status of the Cabibbo theory B6 (1968) 255
Brene, N., A.B. Kræmmer, T. Vilhjalmsson, Four-body semileptonic decays of hyperons B9 (1969) 543
Bressani, T., G. Charpak, J. Favier, L. Massonnet, W.E. Meyerhof, Č. Zupančič, Energy dependence of the quasi-free $(\pi^+, 2p)$ reactions and evidence for the reaction $\pi^+ + (2N) \rightarrow \pi + p + p$ in nuclei B9 (1969) 427
Briand, H., see James B8 (1968) 365
Bricman, C., see Armenteros B8 (1968) 183
Bricman, C., see Armenteros B8 (1968) 195
Bricman, C., see Armenteros B8 (1968) 216
Bricman, C., see Armenteros B8 (1968) 223
Bricman, C., see Armenteros B10 (1969) 432
Broido, M.M., J.G. Taylor, Bootstrapped symmetries and octet generation in field theory B4 (1968) 374
Brooker, P., Veneziano's model and current algebra sum rules in $\pi\pi$ scattering B10 (1969) 59
Brookes, G.R., see Smith B1 (1967) 483
Brookes, G.R., R. Railton, J.G. Rutherglen, I.L. Smith, Total absorption measurements of 100-250 MeV photons in hydrogen B2 (1967) 424
Brookes, G.R., see Smith B2 (1967) 408
Brown, D.J., Models for the process $p+p \rightarrow d+\pi^+$ at 3-13 GeV/c B7 (1978) 37
Brucker, E.B., see Reynolds B6 (1968) 633
Brunila, T., M. Roos, J. Pišút, Test of a relativistic many-channel resonance formula B9 (1969) 461
Bryan, R.A., R.J.N. Phillips, Nucleon-antinucleon potential from single-meson exchanges B5 (1968) 201

Bryan, R.A., R.J.N. Phillips, Erratum B7 (1968) 481
Buccella, F., M. De Maria, M. Lusignoli, Sum rules for the mixing angles of the baryons in SU(3) ⊗ SU(3) chiral algebra at infinite momentum B6 (1968) 430
Buccella, F., M. De Maria, B. Tirozzi, Lower hadron states classification and SU(3) ⊗ SU(3) chiral algebra approximate saturation B8 (1968) 521
Buchner, K., G. Dehm, G. Goebel, H. Hupe, T. Joldersma, I.S. Mittra, W. Wittek, J.M. Crispeels, J. Debaisieux, M. Delabaye, P. Dufour, F. Grard, J. Heughebaert, J. Naisse, G. Thill, A. Grant, V.P. Henri, B. Jongejans, U. Kundt, F. Muller, R.L. Sekulin, G. Wolf, Coherent K^* production in K^+d reactions at 3 GeV/c B9 (1969) 286
Bugg, D.V., Meson-nucleon coupling constants from nucleon-nucleon forward dispersion relations B5 (1968) 29
Bugg, W.M., see Cohn B1 (1967) 57
Bugg, W.M., G.T. Condo, J.T. Humphreys, R.D. McCulloch, H.O. Cohn, π^+n interactions at 3.29 GeV/c: four- and five-pion events B6 (1968) 246
Bull, V.A., see Gajewski B1 (1967) 105
Bull, V.A., see Bohm B4 (1968) 511
Bull, V.A., see Bohm B9 (1969) 1
Burgun, G., J. Meyer, E. Pauli, B. Tallini, J. Vrana, A. De Bellefon, A. Berthon, K.L. Rangan, J. Beaney, S.M. Deen. C.M. Fisher, J.R. Smith, Resonance formation in the reactions $K^-p \to K^+\Xi^-$ and $K^-p \to K^0\Xi^0$ in the mass region from 1915 to 2168 MeV B8 (1968) 447
Burhop, E.H.S., The neutron distribution in the surface of heavy nuclei B1 (1967) 438
Burkhardt, E., see Armenteros B8 (1968) 183
Burkhardt, E., see Armenteros B8 (1968) 195
Burkhardt, E., see Armenteros B8 (1968) 216
Burkhardt, E., see Armenteros B8 (1968) 223
Burkhardt, E., see Conforto B8 (1968) 265
Burkhardt, E., see Armenteros B10 (1969) 432
Burnel, A., H. Caprasse, A unified treatment of photon and neutral vector meson. The free field case B5 (1968) 593
Burnel, A., Current-field identification and Schwinger terms B7 (1968) 91
Burnel, A., H. Caprasse, A model for weak currents and resulting Weinberg's sum rules B8 (1968) 65
Burnel, A., New spectral functions sum rules in a quantum field-theory model B8 (1968) 511
Butenschön, H., see Hilpert B8 (1968) 535
Byckling, E., K. Kajantie, n-Particle phase space in terms of invariant momentum transfers B9 (1969) 568
Byer, T., see Bartsch B4 (1968) 326
Byer, T., see Boesebeck B4 (1968) 501
Byer, T.A., see Aderholz B5 (1968) 567
Byer, T.A., see Aderholz B5 (1968) 606
Byer, T.A., see Aderholz B7 (1968) 111
Byer, T.A., see Aderholz B8 (1968) 45
Campbell, J., see Ijaz B7 (1968) 175
Campbell, J.A., Algebraic computation of radiative corrections for electron-proton scattering B1 (1967) 283
Campbell, J.A., Erratum B10 (1969) 190
Capdeville, M., see Ader B3 (1967) 407
Caprasse, H., see Burnel B5 (1968) 593
Caprasse, H., see Burnel B8 (1968) 65
Carlson, P.J., see Banaigs B8 (1968) 31

Carlson, P.J., see Baker B9 (1969) 249
Carlson, P.J., see Banaigs B9 (1969) 640
Carrigan Jr., R.A. Direct evidence for the assignment of zero spin to the pi-minus meson B6 (1968) 662
Castagnoli, C., M.A. Locci, P. Picchi, G. Verri, On the Čerenkov light in 10^{12}–10^{14} eV extensive air showers B2 (1967) 369
Castel, B., see El-Baz B2 (1967) 51
Castel, B., E. El-Baz, J. Lafoucrière, A graphical method for the crossing matrix in the octet model B2 (1967) 296
Castell, L., The physical aspects of the conformal group $SO_0(4.2)$ B4 (1968) 343
Castell, L., Causality and conformal invariance B5 (1968) 601
Castell, L., Erratum B7 (1968) 174
Catillon, P., M. Chapellier, D. Garreta, Spin correlation parameter A_{xx} and A_{yy} measurements in p-p scattering from 11 MeV to 26 MeV B2 (1967) 93
Caudrey, P.J., I.J. Ketley, R.C. King, Covariant arbitrary-spin wave functions and helicity couplings B6 (1968) 671
Chabaud, V., see Banaigs B8 (1968) 31
Chabaud, V., see Baker B9 (1969) 249
Chabaud, V., see Banaigs B9 (1969) 640
Chandler, J.P., see Galloway B8 (1968) 545
Chang, N.P., K.T. Mahanthappa, Impact parametrisation and daughter trajectories B6 (1968) 200
Chan Hong-Mo, see Paton B10 (1969) 516
Chapellier, M., see Catillon B2 (1967) 93
Charpak, G., see Bressani B9 (1969) 427
Chaudhuri, P., see Paler B10 (1969) 221
Chela-Flores, J., Relation between *CP* violating parameters B7 (1968) 409
Chew, C.-K., R.T. Sharp, SU(3) isoscalar factors B2 (1967) 597
Chikovani, G., see Dubal B3 (1967) 435
Chiu, C.B., A. Kotański, Loops in partial wave expansion of asymptotic amplitudes B7 (1968) 615
Chiu, C.B., A. Kotański, The top position of the loops in Regge partial waves B8 (1968) 553
Choudhury, S.R., P.K. Srivastava, Elementary and composite particles in the V-θ sector of the Lee model B2 (1967) 441
Clark, J.W., see Mueller B7 (1968) 227
Clegg, A.B., Excitation of negative parity nucleon isobars in the quark model B5 (1968) 59
Clegg, A.B., A new method for obtaining information about the s-wave $\pi\pi$ interaction from the reaction $\pi^- p \to \pi^0\pi^0 n$ B6 (1968) 75
Cocconi, V.T., see Bartsch B4 (1968) 326
Cocconi, V.T., see Boesebeck B4 (1968) 501
Cocconi, V.T., see Aderholz B5 (1968) 567
Cocconi, V.T., see Aderholz B5 (1968) 606
Cocconi, V.T., see Aderholz B7 (1968) 111
Cocconi, V.T., see Bartsch B7 (1968) 345
Cocconi, V.T., see Bartsch B8 (1968) 9
Cocconi, V.T., see Aderholz B8 (1968) 45
Cocconi, V.T., see Junkmann B8 (1968) 471
Cocconi, V.T., see Aderholz B8 (1968) 485
Cohen-Ganouna, J., see Conforto B3 (1967) 469
Cohen-Ganouna, J., see Astier B10 (1969) 65
Cohn, H.O., R.D. McCulloch, W.M. Bugg, G.T. Condo, Properties of the neutral A-mesons B1 (1967) 57
Cohn, H.O., see Bugg B6 (1968) 246
Colley, D.C., see Sisterson B6 (1968) 205

Collins, P.D.B., G.G.Ross, E.J.Squires, Duality and the identification of resonances B10 (1969) 475
Condo, G.T., see Cohn B1 (1967) 57
Condo, G.T., see Bugg B6 (1968) 246
Conforto, B., B.Maréchal, L.Montanet, M.Tomas, C.D'Anlau, A.Astier, J.Cohen-Ganouna, M.Della Negra, M.Baubillier, J.Duboc, F.James, M.Goldberg, D.Spencer, Experimental results on the ($K\bar{K}$) and ($K\pi$) systems as observed in the annihilations $pp \to K\bar{K}\pi$ at rest B3 (1967) 469
Conforto, B., D.M.Harmsen, T.Lasinski, R.Levi-Setti, M. Raymund, E.Burkhardt, H.Filthuth, E.Kluge, H.Oberlack, R.R.Ross, The $\bar{K}N$ interaction from 800 to 1200 MeV/c (II). K^-p and $\bar{K}N\pi$ final states from an analysis of two-prong events B8 (1968) 265
Connor, F.R., Positon-negaton scattering B6 (1968) 693
Contogouris, A.P., J.Tran Thanh Van, M.Le Bellac, Backward pion-nucleon scattering and fermion-exchange mechanisms B5 (1968) 683
Conway, A.P., see Gajewski B1 (1967) 105
Conway, A.P., see Harmsen B4 (1968) 277
Conway, A.P., see Bohm B4 (1968) 511
Conway, A.P., see Bohm B9 (1969) 1
Cook, C.L., L.E.Evans, M.Y.Han, N.R.Lipshutz, N.Straumann, Sum rules and the electromagnetic mass difference of pions B5 (1968) 140
Cook, P.A., Asymptotic chiral symmetry for arbitrary spin B4 (1968) 392
Cook, P.A., G.C.Joshi, Spectral function sum rules for tensor currents and the ρ-meson electromagnetic mass difference B10 (1969) 253
Coremans, G., see Bohm B4 (1968) 511
Coremans, G., W.Gajewski, C.Mayeur, J.Sacton, P.Vilain, G. Wilquet, D.H.Davis, J.H.Wickens, The question of the existence of a particle-stable Λ^6Li hypernucleus B4 (1968) 580
Coremans, G., see Bohm B9 (1969) 1
Corley, D.M., see Igo B3 (1967) 181
Cornille, H., Self-damping mechanism for approximate N/D equations B3 (1967) 655
Cornille, H., G.Philippe, High-energy bounds for helicity amplitudes of arbitrary spins and masses B5 (1968) 627
Costa, G., G.Shaw, Soft pions and finite-energy sum rules: application to scattering of pions by $\frac{1}{2}^+$ baryons B6 (1968) 1
Cottingham, W.N., see Bowcock B3 (1967) 95
Cox, G.F., G.H.Eaton, C.P.Van Zyl, O.N.Jarvis, B.Rose, Measurements of the differential cross section and polarization in proton-proton scattering at about 143 MeV B4 (1968) 353
Cremmer, E., Relativistic treatment of muon capture in deuterium. Application to the determination of neutron-neutron scattering length and effective range B2 (1967) 409
Cremmer, E., Strong decays of baryonic resonances $\frac{3}{2}^-$ and SU(3) symmetry B4 (1968) 257
Cremmer, E., M.Gourdin, Radiative corrections to $\varphi \to K\bar{K}$ decay B9 (1969) 451
Cremmer, E., M.Gourdin, A calculation for the $e^+e^- \to \pi^0\gamma$ reaction B10 (1969) 179
Crispeels, J.M., see Buchner B9 (1969) 286
Crittenden, R.R., see Galloway B8 (1968) 545
Cronström, C., M.Noga, Bootstrap theory of static pion-baryon scattering, connections with strong-coupling theory B7 (1968) 201
Cronström, C., see Noga B9 (1969) 89
Crozon, M., see Armenteros B10 (1969) 459
Csejthey-Barth, M., see Davis B1 (1967) 434
Csikor, F., I.Montvay, Current algebra, pole dominance and meson coupling constants B5 (1968) 492

Csikor, F., I. Montvay, Current algebra, pole-dominance and meson coupling constants (II) B7 (1968) 268
Cüer, P., see Gerber B5 (1968) 75
Cuevas, J., J. Diaz, D. M. Harmsen, W. Just, E. Lohrmann, L. Schink, H. Spitzer, M. W. Teucher, Interactions of 1.5 GeV/c K^- mesons with emulsion nuclei - General characteristics, production, and decay of hyperfragments B1 (1967) 411
Cukierda, T., J. Lukierski, Equivalence of two formulations of massive spin-one field theory B5 (1968) 508
Cunningham, J., M. Rafique, Wigwam singularities B1 (1967) 21
Cunningham, J., M. Rafique, Some geometrical inter-relationships of Landau curves B1 (1967) 35
Cunningham, J., M. Rafique, A cusped vertex Landau curve B2 (1967) 237
Czyżewski, O., see Bartke B5 (1968) 582
Daboul, J., Conditions on density matrix elements and their application in resonance production B4 (1968) 180
Daboul, J., Regge-pole description of the photoproduction of vector mesons B7 (1968) 651
Dahmen, H. D., K. D. Rothe, L. Schülke, $K_{\ell 3}$ form factors and the algebra of charges B7 (1968) 472
Dahmen, H. D., K. D. Rothe, L. Schülke, Subtractions and off-shell continuation of weak form factors B8 (1968) 150
Dalitz, R. H., A. Gal, Isomeric states in Λ^7He B1 (1967) 1
Dallman, D. P., see Bartsch B4 (1968) 326
Dallman, D. P., see Aderholz B5 (1968) 567
Dallman, D. P., see Aderholz B7 (1968) 111
Dallman, D. P., see Bartsch B8 (1968) 9
Dalpiaz, P. F., see Aderholz B8 (1968) 45
D'Andlau, C., see Conforto B3 (1967) 469
D'Andlau, C., A. Astier, L. Dobrzynski, J. Siaud, J. Barlow, L. Montanet, L. Tallone-Lambardi, A. M. Adamson, J. Duboc, M. Goldberg, R. A. Donald, D. N. Edwards, J. E. A. Lys, Antiproton-proton annihilation into ($K\bar{K} + 3\pi$) and ($K\bar{K} + 4\pi$) at 1.2 GeV/c study of the D^0 properties B5 (1968) 693
Danysz, J. A., see Zalewski B2 (1967) 249
Dar, A., see Robinson B6 (1968) 62
Darriulat, P., see Böhm B9 (1969) 605
Dass, G. V., C. D. Froggatt, Regge-pole model for vector meson productions (I). The reaction πN-ρN B8 (1968) 661
Dass, G. V., C. Michael, R. J. N. Phillips, Regge-pole models for kaon-nucleon scattering B9 (1969) 549
Dass, G. V., C. D. Froggatt, Regge-pole model for vector meson production (II). The reaction $KN \rightarrow K^*N$ B10 (1969) 151
Datta Majumdar, S., The Dirac equation at high energies B1 (1967) 41
Daum, C., F. C. Erné, J. P. Lagnaux, J. C. Sens, M. Steuer, F. Udo, Elastic scattering of negative kaons on polarized protons between 1.4 and 2.4 GeV/c B6 (1968) 273
Daum, C., F. C. Erné, J. P. Lagnaux, J. C. Sens, M. Steuer, F. Udo, Elastic scattering of antiprotons on polarized protons at 1.73, 2.13, 2.37 and 2.97 GeV/c B6 (1968) 617
Daum, C., F. C. Erné, J. P. Lagnaux, J. C. Sens, M. Steuer, F. Udo, Contribution to the search for spins and parities of Y^*'s in the 2.0-2.4 GeV mass region B7 (1968) 19
D'Auria, R., E. Predazzi, F. Selleri, On the npd vertex functions B8 (1968) 645
Davies, G. H., N. M. Queen, M. Lusignoli, M. Restignoli, G. Violini, Determination of the NΛK and NΣK coupling constants from KN forward dispersion relations B3 (1967) 616

Davis, D.H., see Gajewski B1 (1967) 105
Davis, D.H., S.P.Lovell, M.Csejthey-Barth, J.Sacton, G.Schorochoff, M.O'Reilly, Evidence for a neutron excess in the surface of heavy nuclei from a K^- meson capture study B1 (1967) 434
Davis, D.H., see Gajewski B2 (1967) 282
Davis, D.H., see Pniewski B2 (1967) 317
Davis, D.H., see Harmsen B4 (1968) 277
Davis, D.H., see Bohm B4 (1968) 511
Davis, D.H., see Coremans B4 (1968) 580
Davis, D.H., see Bohm B9 (1969) 1
Dean, N.W., Multiple-scattering corrections to the Johnson-Treiman relation in the quark model B4 (1968) 534
Dean, N.W., Erratum B6 (1968) 84
Dean, N.W., Processes requiring double scattering in the quark model B7 (1968) 311
Dean, N.W., Regge poles and large-angle scattering B10 (1969) 496
Debaisieux, J., P.Dufour, F.Grard, J.Heughebaert, F.Verbeure, R.Windmolders, π^+p interactions at 850 MeV/c B5 (1968) 147
Debaisieux, J., see Buchner B9 (1969) 286
Debaisieux, J., see Bassompierre B9 (1969) 295
De Beare, W., see Bassompierre B9 (1969) 295
De Bellefon, A., see Burgun B8 (1968) 447
DeCelles, P.C., Boson mass squared formula and spurions B1 (1967) 216
Deen, S.M., see Burgun B8 (1968) 447
Dehm, K., see Buchner B9 (1969) 286
Delabaye, M., see Buchner B9 (1969) 286
Della Negra, M., see Conforto B3 (1967) 469
Della Negra, M., see Astier B10 (1969) 65
Deloff, A., Meson-baryon scattering in a quark model B2 (1967) 597
Deloff, A., Erratum B3 (1967) 188
Deloff, A., Lambda-nucleon scattering B4 (1968) 585
De Maria, M., see Buccella B6 (1968) 430
De Maria, M., see Buccella B8 (1968) 521
Depommier, P., J.Duclos, J.Heintze, K.Kleinknecht, H.Rieseberg, V.Soergel, A measurement of the $\pi^+ \to \pi^0 + e^+ + \nu$ decay rate B4 (1968) 189
Erratum B4 (1968) 432
De Rafael, E., see Martin B8 (1968) 131
De Rafael, E., see Gourdin B10 (1969) 667
Deregel, J., see Bizard B5 (1968) 515
Derem, A., Analyse de l'échange de charge K^-p à haute énergie à l'aide de deux poles de Regge ρ et R B3 (1967) 106
Derem, A., G.Smadja, The ρ + R Regge-pole model in the reaction $K^- + p \to K^0 + n$ B3 (1967) 628
Derem, A., SU(3) symmetry and Regge poles at high energy B5 (1968) 70
Derem, A., Deux trajectoires de Regge dans la réaction $\pi^-p \to \pi^0 n$ B10 (1969) 619
Derem, A., see Barloutaud B10 (1969) 683
Desimirov, G., M.Mateev, On some properties of the quasipotential for interacting spinor fields B2 (1967) 218
Desimirov, G.M., M.D.Mateev, On the quasipotential description of the negaton-positon interaction B4 (1968) 649
De Souza, P.D., see Lai B6 (1968) 649
Deutschmann, M., see Bartsch B4 (1968) 326
Deutschmann, M., see Boesebeck B4 (1968) 501
Deutschmann, M., see Aderholz B5 (1968) 567
Deutschmann, M., see Aderholz B7 (1968) 111
Deutschmann, M., see Bartsch B8 (1968) 9
Deutschmann, M., see Aderholz B8 (1968) 45

Deutschmann, M., see Aderholz B8 (1968) 485
Devanathan, V., M. Rho, K. Srinivasa Rao, S. C. K. Nair, Photoproduction of charged pions from ^{16}O B2 (1967) 329
De Vos, J. A., J. Hilgevoord, Five-dimensional aspect of free particle motion B1 (1967) 494
De Vries, E., J. E. Jonker, Non-relativistic approximations of the Dirac Hamiltonian B6 (1968) 213
De Wit, S. A., see Scheuer B8 (1968) 503
De Wolf, E., see Bassompierre B9 (1969) 295
Diaz, J., see Cuevas B1 (1967) 411
Dietz, K., J. Kupsch, Covariance of the retarded product of axial-vector currents and the form of their equal-time commutator B2 (1967) 581
Dietz, K., J. Honerkamp, J. Kupsch, Bootstrap models for Regge trajectories B6 (1968) 639
Dillenburg, D., G. Jacob, Th. A. J. Maris, B. Stech, Charge commutator for any momentum B10 (1969) 27
Divakaran, P. P., A broken symmetry model for baryon leptonic decays based on asymptotic symmetries B7 (1968) 459
Dobrzynski, L., see D'Andlau B5 (1968) 693
Donald, R. A., see D'Andlau B5 (1968) 693
Donald, R. A., D. N. Edwards, R. S. Moore, E. J. C. Read, S. Reucroft, A. G. Frodesen, T. Jacobsen, S. Sire, O. Skjeggestad, P. Saetre, H. Tøfte, A. Bettini, S. Limentani, L. Peruzzo, R. Santangelo, S. Sartori, The four-prong annihilation of 1.2 GeV/c antiprotons in hydrogen (I): Four-pion final state B6 (1968) 174
Donald, R., see Astier B10 (1969) 65
Donnachie, A., see Berends B3 (1967) 569
Donnachie, A., see Berends B4 (1968) 1
Donnachie, A., see Berends B4 (1968) 54
Donnachie, A., see Berends B4 (1968) 103
Donnachie, A., R. G. Kirsopp, Resonances and Regge poles in pion-nucleon scattering B10 (1969) 433
Downs, B. W., Y. Nogami, Meson mixing and the charge asymmetry of the N-N interaction B2 (1967) 459
Dremin, I. M., see Andreev B10 (1969) 137
Drevermann, H., see Junkmann B8 (1968) 471
Dubal, L., M. N. Focacci, W. Kienzle, C. Lechanoine, B. Levrat, B. C. Maglic, M. Martin, P. Schubelin, G. Chikovani, M. Fischer, P. Grieder, H. A. Neal, C. Nef, Experimental confirmation of R-meson structure B3 (1967) 435
Duboc, J., see Conforto B3 (1967) 469
Duboc, J., see D'Andlau B5 (1968) 693
Duboc, J., see Astier B10 (1969) 65
Duchon, J., see Bizard B5 (1968) 515
Duck, I., Deuteron/singlet deuteron production in $p + p \rightarrow p + n + \pi$ B1 (1967) 96
Duck, I. M., see Pearce B3 (1967) 241
Duck, I. M., see Gale B8 (1968) 109
Duclos, J., see Depommier B4 (1968) 189
Duclos, J., see Depommier B4 (1968) 432
Duflo, J., see Banaigs B8 (1968) 31
Duflo, J., see Baker B9 (1969) 249
Duflo, J., see Banaigs B9 (1969) 640
Dufour, P., see Debaisieux B5 (1968) 147
Dufour, P., see Buchner B9 (1969) 286
Dufour, P., see Bassompierre B9 (1969) 295
Dunaitsev, A. F., see Vasilevsky B9 (1969) 673
Duong Nhu Hoa, see Barloutaud B9 (1969) 493

Dutton, L.M.C., R.J.W.Howells, J.D.Jafar, H.B.Van der Raay, Small-angle d-p elastic scattering at 1.69 GeV/c B9 (1969) 594
Eaton, G.H., see Cox B4 (1968) 353
Ebel, G., H.Pilkuhn, Spin and isospin in high-energy charge-exchange reactions on deuterons B7 (1968) 147
Edwards, D.N., see D'Andlau B5 (1968) 693
Edwards, D.N., see Donald B6 (1968) 174
Edwards, D.N., see Astier B10 (1969) 65
Eisenberg, J.M., J.Letourneux, Double-nucleon emission following the absorption of bound pions B3 (1967) 47
Eisenberg, J.M., Pion charge-exchange scattering on nuclei and proton-neutron correlations B3 (1967) 387
El-Baz, F., B.Castel, J.-N.Massot, J.Lafoucrière, On a graphical method for Clebsch-Gordan coefficients, isoscalar factors and rotation matrices for SU_3 B2 (1967) 51
El-Baz, E., see Castel B2 (1967) 296
Eliezer, Sh., P.Singer, Like pion spectra and non-linear effects in $K \to 3\pi$ decays B4 (1968) 607
Eliseev, S.M., see Artykov B6 (1968) 11
Erbe, R., see Brall B1 (1967) 668
Ericson, M., see Partensky B1 (1967) 382
Ericson, M., A.Figureau, Radiative pion capture and axial currents in nuclei B3 (1967) 609
Ericson, M., see Figureau B10 (1969) 349
Ericson, M., A.Figureau, A.Molinari, From soft to real pions in nuclei and extended systems B10 (1969) 501
Ericson, T.E.O., see Fäldt B8 (1968) 1
Erné, F.C., see Daum B6 (1968) 273
Erné, F.C., see Daum B6 (1968) 617
Erné, F.C., see Daum B7 (1968) 19
Erskine, R., see Sisterton B6 (1968) 205
Erwin, A.R., W.D.Walker, A.T.Goshaw, A.Weinberg, Multiple pion production in K^+-proton collisions at 3.5 GeV/c B9 (1969) 364
Erwin, A.R., see Bishop B9 (1969) 403
Eskreys, A.W., see Paler B10 (1969) 221
Evans, D.A., see Goodhead B2 (1967) 121
Evans, D.A., D.T.Goodhead, Spallation hypernuclei produced by 6 GeV/c K^- mesons B3 (1967) 441
Evans, L.E., see Cook B5 (1968) 140
Fabricius, K., Some consequences of asymptotic symmetry and pole dominance B7 (1968) 331
Fairbairn, W.M., The eight dimensional orthogonal group O(8) and internal symmetry B1 (1967) 127
Fäldt, G., B.Petersson, H.Pilkuhn, The decays $K \to \pi\gamma\gamma$ and $K^+ \to \pi^+\pi^0$ in the η-pole approximation B3 (1967) 234
Fäldt, G., T.E.O.Ericson, Fermi motion in pion deuteron scattering at high energies B8 (1968) 1
Fäldt, G., M.P.Locher, Adler's self-consistency condition for nuclei B10 (1969) 283
Fäldt, G., Dispersion relations and Glauber model for pion-deuteron scattering B10 (1969) 597
Farber, M.S., see Berlinghieri B8 (1968) 333
Faucher, G., Regge poles and nuclei B7 (1968) 16
Favier, J., see Bressani B9 (1969) 427
Fayyazuddin, see Riazuddin B6 (1968) 515
Feautrier, C., see Betourne B5 (1968) 355
Ferbel, T., see Berlinghieri B8 (1968) 333

Ferrari, R., General structure of multiplets for massless particles B10 (1969) 375
Ferro-Luzzi, M., see Tripp B3 (1967) 10
Ferro-Luzzi, M., see Armenteros B3 (1967) 592
Ferro-Luzzi, M., see Armenteros B8 (1968) 183
Ferro-Luzzi, M., see Armenteros B8 (1968) 195
Ferro-Luzzi, M., see Armenteros B8 (1968) 216
Ferro-Luzzi, M., see Armenteros B8 (1968) 223
Ferro-Luzzi, M., see Armenteros B8 (1968) 233
Ferro-Luzzi, M., see Armenteros B10 (1969) 432
Fetisov, V.N., see Balashov B1 (1967) 158
Figureau, A., see Ericson B3 (1967) 609
Figureau, A., M. Ericson, Absorption of π-mesons by ^{3}He B10 (1969) 349
Figureau, A., see Ericson B10 (1969) 501
Filipkowski, A., see Bohm B4 (1968) 511
Filipkowski, A., see Bohm B9 (1969) 1
Filthuth, H., see Brall B1 (1967) 668
Filthuth, H., see Tripp B3 (1967) 10
Filthuth, H., see Armenteros B3 (1967) 592
Filthuth, H., see Armenteros B8 (1968) 183
Filthuth, H., see Armenteros B8 (1968) 195
Filthuth, H., see Armenteros B8 (1968) 216
Filthuth, H., see Armenteros B8 (1968) 223
Filthuth, H., see Armenteros B8 (1968) 233
Filthuth, H., see Conforto B8 (1968) 265
Filthuth, H., see Armenteros B10 (1969) 432
Finney, P.J., see Sisterson B6 (1968) 205
Finney, P.J., see Paler B10 (1969) 221
Fischer, M., see Dubal B3 (1967) 435
Fischer, C., see Sisterson B6 (1968) 205
Fisher, C.M., see Burgun B8 (1968) 447
Fishwick, A., see Bohm B4 (1968) 511
Fishwick, A., see Bohm B9 (1969) 1
Flaminio, E., see Boesebeck B4 (1968) 501
Flaminio, E., see Aderholz B5 (1968) 567
Flaminio, E., see Aderholz B7 (1968) 111
Flaminio, E., see Bartsch B8 (1968) 9
Fleischer, J., Non-forward photoproduction of ρ^0 mesons from complex nuclei B7 (1968) 47
Fletcher, E.R., see Gajewski B1 (1967) 105
Fletcher, E.R., see Gajewski B2 (1967) 282
Fletcher, E.R., see Harmsen B4 (1968) 277
Fletcher, E.R., see Bohm B4 (1968) 511
Fletcher, E.R., see Bohm B9 (1969) 1
Focacci, M.N., see Dubal B3 (1967) 435
Focardi, S., see Barloutaud B10 (1969) 683
Foldy, L.L., see Bogan Jr. B4 (1968) 485
Fontaine, J.M., see Bizard B5 (1968) 515
Forkman, B., see Nydahl B7 (1968) 97
Forman, B.E., see Berlinghieri B8 (1968) 333
Formánek, J., J.S. Trefil, On the possibility of obtaining particle scattering amplitudes from nuclear scattering processes B3 (1967) 155
Formánek, J., J.S. Trefil, Determination of particle scattering amplitudes from nuclear photoproduction B4 (1968) 163
Foster, M., Ph. Gavillet, G. Labrosse, L. Montanet, R.A. Salmeron, P. Villemoes, G. Ghesquière, E. Lillestøl, Production of three pions in $\bar{p}p$ annihilations at rest B6 (1968) 107

Foster, M., Ph. Gavillet, G. Labrosse, L. Montanet, R. A. Salmeron, P. Villemoes, G. Ghesquière, E. Lillestøl, Experimental results on $\bar{p}p \rightarrow \eta\pi^+\pi^-$ and $\bar{p}p \rightarrow X^0\pi^+\pi^-$ for annihilations at rest B8 (1968) 174
Fox, R., see Bar-Avraham B1 (1967) 49
Fox, J. R., Finite energy sum rules in nucleon Compton scattering B5 (1968) 331
Fraas, H., D. Schildknecht, Vector meson dominance and polarization B6 (1968) 395
Fraas, H., Asymmetrical pair production in quantum electrodynamics with modified fermion propagator B9 (1969) 433
Frampton, P. H., Superconvergence in πN^* elastic scattering B2 (1967) 518
Frampton, P. H., Factorisation, kinematic factors of the Regge residue function and conspiracy B7 (1968) 507
Freund, P., see Brall B1 (1967) 668
Freytag, E., see Bathow B2 (1967) 669
Frieder, G., see Bar-Avraham B1 (1967) 49
Frieder, G., A. Peres, Analytic behavior of electron propagator for complex $e^2/\hbar c$ B4 (1968) 306
Friedes, J. L., see Igo B3 (1967) 181
Friedman, M. H., see Arnowitt B5 (1968) 115
Friedman, M. H., see Arnowitt B10 (1969) 578
Frodesen, A. G., see Donald B6 (1968) 174
Frodesen, A. G., P. Skjeggestad, R. S. Moore, S. Reucroft, The four-prong annihilation of 1.2 GeV/c antiprotons in hydrogen (III). $K^+K^-\pi^+\pi^-$ and $K^+K^-\pi^+\pi^-\pi^0$ final states B10 (1969) 307
Froggatt, C. D., Remarks on pion conspiracy B6 (1968) 421
Froggatt, C. D., see Dass B8 (1968) 661
Froggatt, C. D., see Dass B10 (1969) 151
Fröhlich, A., see Bartsch B4 (1968) 326
Fröhlich, A., see Aderholz B5 (1968) 567
Fröhlich, A., see Bartsch B8 (1968) 9
Fujii, Y., $\eta \rightarrow 3\pi$ and possible large violation of partial conservation of axial vector current for η B7 (1968) 601
Fushchich, V. I., I. Yu. Krivsky, On a possible approach to the variable-mass problem B7 (1968) 79
Gajewski, W., C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. Harmsen, R. Levi-Setti, M. Raymund, J. Zakrzewski, D. Stanley, D. H. Davis, E. R. Fletcher, J. E. Allen, V. A. Bull, A. P. Conway, P. V. March, A compilation of binding energy values of light hypernuclei B1 (1967) 105
Gajewski, W., C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. H. Davis, E. R. Fletcher, A search for rare decay modes of hydrogen and helium hypernuclei B2 (1967) 282
Gajewski, W., see Harmsen B4 (1968) 277
Gajewski, W., see Bohm B4 (1968) 511
Gajewski, W., see Coremans B4 (1968) 580
Gajewski, W., see Bohm B9 (1969) 1
Gal, A., see Dalitz B1 (1967) 1
Gal, A., see Alexander B2 (1967) 1
Gal, A., F. Scheck, Electromagnetic mass splittings of mesons and baryons in the quark model B2 (1967) 110
Gal, A., F. Scheck, Erratum B3 (1967) 363
Gale, W. A., see Pearce B3 (1967) 241
Gale, W. A., I. M. Duck, N-N^* interactions with Faddeev equations B8 (1968) 109
Galindo, A., P. Pascual, Asymmetry of recoil nuclei in capture of polarized muons B4 (1968) 295
Galloway, K. F., E. D. Alyea Jr., J. P. Chandler, R. R. Crittenden, H. J. Martin Jr., The $K^-n \rightarrow K^-\pi^-p$ reaction at 2.24 GeV/c B8 (1968) 545

Garbowska-Pniewska, G., see Bohm — B4 (1968) 511
Garbowska-Pniewska, K., see Bohm — B9 (1969) 1
Garczyński, W., Haag's theorem in scattering theory — B2 (1967) 207
Garczyński, W., Generalization of Haag's theorem in scattering theory — B4 (1968) 689
Garreta, D., see Catillon — B2 (1967) 93
Garvey, J., see Smith — B1 (1967) 483
Garvey, J., see Smith — B2 (1967) 408
Gavillet, Ph., see Foster — B6 (1968) 107
Gavillet, Ph., see Foster — B8 (1968) 174
Gehlen, G.v., Dispersion relations for electroproduction partial-wave amplitudes — B9 (1969) 17
Gensch, U., see Aderholz — B5 (1968) 567
Gensch, U., see Aderholz — B7 (1968) 111
Gerber, J P., A. Bechdolff, G. Baumann, P. Cüer, J. Jousset, M. Montret, Production d'hyperfragments et de fragments ^{8}Li dans les interactions de mésons K^- de 10.1 GeV/c avec les noyaux de l'émulsion ionographique — B5 (1968) 75
Gersten, A., see Alexander — B2 (1967) 1
Geyer, B., On the generalization of canonical commutation relations with respect to the orthogonal group in even dimensions — B8 (1968) 326
Geyer, B., On generalized field quantization procedures — B9 (1969) 67
Ghesquière, C., see Foster — B6 (1968) 107
Ghesquière, C., see Foster — B8 (1968) 174
Ghika, G., E. E. Radescu, Superconvergent dispersion relations at variable masses — B10 (1969) 247
Gibson, B. F., G. B. West, Remarks concerning inelastic electron scattering from ^{3}He — B1 (1967) 349
Gibson, B. F., Structure of the trinucleons — B2 (1967) 501
Ginestet, J., see Kayas — B5 (1968) 169
Goebel, G., see Buchner — B9 (1969) 286
Goldberg, H., On the representation of current algebraic relations in the space of relativistic two-particle states — B3 (1967) 173
Goldberg, H., On the relativistic kinematics of processes involving massless particles — B7 (1968) 359
Goldberg, I., E. Marx, Consistency of current commutators — B3 (1967) 25
Goldberg, J., see Barloutaud — B9 (1969) 493
Goldberg, J., see Barloutaud — B10 (1969) 683
Goldberg, M., see Conforto — B3 (1967) 469
Goldberg, M., see D'Andlau — B5 (1968) 693
Goldsack, S. J., see Bartsch — B4 (1968) 326
Goldsack, S. J., see Aderholz — B5 (1968) 567
Goldsack, S. J., see Aderholz — B5 (1968) 606
Goldsack, S. J., see Aderholz — B7 (1968) 111
Goldsack, S. J., see Bartsch — B8 (1968) 9
Goldschmidt-Clermont, Y., see Bassompierre — B9 (1969) 295
Goldzahl, L., see Banaigs — B8 (1968) 31
Goldzahl, L., see Baker — B9 (1969) 249
Goldzahl, L., see Banaigs — B9 (1969) 640
Goodhead, D. T., D. A. Evans, Search for resonant states of Λ^{6}Li and Λ^{9*}Be hypernuclei — B2 (1967) 121
Goodhead, D. T., see Evans — B3 (1967) 441
Gordon, J. D., see Sisterson — B6 (1968) 205
Goshaw, A. T., see Erwin — B9 (1969) 364
Goshaw, A. T., see Bishop — B9 (1969) 403
Gourdin, M., Neutral K-meson decay and discrete symmetries — B3 (1967) 207
Gourdin, M., see Cremmer — B9 (1969) 451

Gourdin, M., E. De Rafael, Hadronic contributions to the muon g-factor B10 (1969) 667
Gourdin, M., see Cremmer B10 (1969) 179
Graham, R. H., M. Huq, Vector dominance sum rules for meson-baryon scattering B7 (1968) 250
Gramenitskii, I. M., see Andreev B10 (1969) 137
Granet, P., see Tripp B3 (1967) 10
Granet, P., see Armenteros B3 (1967) 592
Granet, P., see Armenteros B8 (1968) 183
Granet, P., see Armenteros B8 (1968) 195
Granet, P., see Armenteros B8 (1968) 216
Granet, P., see Armenteros B8 (1968) 223
Granet, P., see Armenteros B8 (1968) 233
Granet, P., see Armenteros B10 (1969) 432
Grant, A., see Buchner B9 (1969) 286
Grant, A., see Bassompierre B9 (1969) 295
Grard, F., see Debaisieux B5 (1968) 147
Grard, F., see Buchner B9 (1969) 286
Grard, F., see Bassompierre B9 (1969) 295
Grassberger, P., see Alt B2 (1967) 167
Grassberger, P., W. Sandhas, Systematical treatment of the non-relativistic n-particle scattering problem B2 (1967) 181
Green, A. E. S., T. Sawada, Relativistic nucleon-nucleon interactions B2 (1967) 267
Green, A. E. S., see Sharma B3 (1967) 33
Green, A. E. S., see Ueda B10 (1969) 289
Grieder, P., see Dubal B3 (1967) 435
Griffiths, D., C. W. Kim, Photoproduction of soft pions in $\gamma + {}^3\mathrm{He} \rightarrow \pi^+ + {}^3\mathrm{H}$ B4 (1968) 309
Griffiths, D., C. W. Kim, Theory of photoproduction of pions from $^{11}\mathrm{B}$ and $^{16}\mathrm{O}$ B6 (1968) 49
Griselin, J., see Barloutaud B9 (1969) 493
Griselin, J., see Barloutaud B10 (1969) 683
Grosso, C., see Böhm B9 (1969) 605
Grote, C., see Bartsch B4 (1968) 326
Grote, C., see Boesebeck B4 (1968) 501
Grote, C., see Aderholz B5 (1968) 567
Grote, C., see Aderholz B5 (1968) 606
Grote, C., see Aderholz B7 (1968) 111
Grote, C., see Bartsch B7 (1968) 345
Grote, C., see Bartsch B8 (1968) 9
Grote, C., see Aderholz B8 (1968) 45
Grote, C., see Junkmann B8 (1968) 471
Grote, C., see Aderholz B8 (1968) 485
Grunbaum, L., D. Yu, Nucleon form factors from sidewise dispersion relation B7 (1968) 255
Grushin, V. F., see Aleksandrov B10 (1969) 145
Grypeos, M. E., L. P. Kok, S. Ali, On the binding energy of a Λ-particle in nuclear matter B4 (1968) 335
Guła, A., see Białas B6 (1968) 483
Gundzik, M. G., see Balachandran B6 (1968) 557
Gupta, V., G. Rajasekaran, Restrictions on Schwinger terms due to Lorentz covariance B10 (1969) 11
Haber, B., see Barloutaud B9 (1969) 493
Hamilton, J., On zero mass pions B1 (1967) 449
Han, M. Y., see Cook B5 (1968) 140
Hansen, J. D., see Bartsch B4 (1968) 326
Hansen, J. D., see Boesebeck B4 (1968) 501

Hansen, J.D., see Aderholz B5 (1968) 567
Hansen, J.D., see Aderholz B5 (1968) 606
Hansen, J.D., see Aderholz B7 (1968) 111
Hansen, J.D., see Bartsch B7 (1968) 345
Hansen, J.D., see Bartsch B8 (1968) 9
Hansen, J.D., see Aderholz B8 (1968) 45
Hansen, J.D., see Junkmann B8 (1968) 471
Hansen, J.D., see Aderholz B8 (1968) 485
Hanuš, W., Covariant generalization of the spin operator as a conclusion from the Dirac equation B10 (1969) 339
Haque, M., see Sisterson B6 (1968) 205
Hara, Y., Total cross sections and the Regge pole model B6 (1968) 510
Hara, Y., The neutron-proton mass difference and the A2 Regge pole B8 (1968) 441
Harigel, G., see Brall B1 (1967) 668
Harms, B.C., see Reynolds B6 (1968) 633
Harmsen, D., see Gajewski B1 (1967) 105
Harmsen, D.M., see Cuevas B1 (1967) 411
Harmsen, D.M., R. Levi-Setti, J. Zakrzewski, W. Gajewski, J. Sacton, P. Vilain, G. Wilquet, D.H. Davis, E.R. Fletcher, J.E. Allen, A.P. Conway, Final state interaction effects in π^- mesonic decays of light hypernuclei B4 (1968) 277
Harmsen, D.M., see Conforto B8 (1968) 265
Harmsen, D.M., see Barletta B10 (1969) 99
Harrison, W.C., see Reynolds B6 (1968) 633
Hasai, H., see Sanada B4 (1968) 379
Hébert, J., H. Mes, $\bar{p}p$ annihilation into pions B4 (1968) 244
Hegerfeldt, G.C., K. Kraus, Note on Poincaré group extensions and internal symmetry transformations B3 (1967) 189
Heintze, J., see Depommier B4 (1968) 189
Heintze, J., see Depommier B4 (1968) 432
Henri, V.P., see Buchner B9 (1969) 286
Henri, V.P., see Bassompierre B9 (1969) 295
Hepp, V., see Tripp B3 (1967) 10
Hepp, V., see Armenteros B3 (1967) 592
Hepp, V., see Armenteros B8 (1968) 233
Herczeg, P., Currents with irregular charge-conjugation properties and the non-leptonic hyperon decays B4 (1968) 153
Herczeg, P., see Blin-Stoyle B5 (1968) 291
Hermanns, M., see Bartsch B4 (1968) 326
Heughebaert, J., see Debaisieux B5 (1968) 147
Heughebaert, J., see Buchner B9 (1969) 286
Heughebaert, J., see Bassompierre B9 (1969) 295
Hilgevoord, J., see De Vos B1 (1967) 494
Hilpert, H.G., P. Lauscher, M. Matziolis, H. Schnackers, H. Weber, A. Meyer, A. Pose, K. Böckmann, U. Idschok, K. Müller, E. Paul, E. Propach, H. Butenschön, H. Kübeck, D. Lüke, H. Seebeck, H. Spitzer, F. Storim, S. Brandt, O. Braun, P. Steffen, J. Stiewe, P. Schlamp, J. Weigl, K. Wilkinson, Photoproduction of negative pions on neutrons at photon energies between 0.2 and 2.0 GeV B8 (1968) 535
Hirsch, E., see Barloutaud B9 (1969) 493
Hirt, W., Neutron-proton radius difference and pion production by protons on nuclei B9 (1969) 447
Hofmokl, T., L. Michejda, S. Otwinowski, R. Sosnowski, M. Szeptycka, W. Wójcik, A. Wróblewski, On the dominant role of the baryon variables in the description of high-multiplicity interactions at high energy B4 (1968) 573
Hofmokl, T., see Junkmann B8 (1968) 471

Högaasen, H., Ph. Salin, General classification of conspiracy relations B2 (1967) 657
Honerkamp, J., see Dietz B6 (1968) 639
Hoogland, W., see Barloutaud B9 (1969) 493
Horlitz, G., see Brall B1 (1967) 668
Howells, R. J. W., see Dutton B9 (1969) 594
Huffer, E., see Scheuer B8 (1968) 503
Hughes, I. S., see Sisterson B6 (1968) 205
Humble, S., Low-energy production processes and the pion-pion interaction B8 (1968) 695
Humphreys, J. T., see Bugg B6 (1968) 246
Hupe, H., see Buchner B9 (1969) 286
Huq, M., see Graham B7 (1968) 250
Huson, F. R., D. J. Miller, J. S. O'Neall, Coherent production of the $p\pi^+\pi^-$ enhancement at 1470 MeV by 28 GeV/c protons on neon B8 (1968) 391
Hyams, B. D., W. Koch, D. C. Potter, J. D. Wilson, L. Von Lindern, E. Lorenz, G. Lütjens, U. Stierlin, P. Weilhammer, The reactions $\pi^- p \to \rho^0 n$ and $K^- p \to K^{*0}(890)n$ at 11.2 GeV/c B7 (1968) 1
Hyams, B. D., W. Koch, D. C. Potter, J. D. Wilson, L. Von Lindern, E. Lorenz, G. Lütjens, U. Stierlin, P. Weilhammer, Erratum B9 (1969) 460
Idschok, U., see Hilpert B8 (1968) 535
Igo, G. J., J. L. Friedes, H. Palevsky, R. Sutter, G. Bennett, W. D. Simpson, D. M. Corley, R. L. Stearns, Measurements of 1 GeV proton total scattering cross section on H, He, ^{6}Li, C, O and Pb targets B3 (1967) 181
Ijaz, M. A., J. Campbell, Some characteristic features of six prong $\pi^- p$ interactions at 7.0 GeV/c B7 (1968) 175
Ikeda, M., see Sanada B4 (1968) 379
Il-Tong Cheon, A. Tohsaki, Absorption of positive pions at low energy by the deuteron B6 (1968) 585
Iosifescu, M., F. Stancu, SU_3 Wigner coefficients in angular momentum space B1 (1967) 471
Ishida, S., K. Konno, P. Roman, H. Shimodaira, Electromagnetic properties of mesons in the quark model B2 (1967) 307
Iwao, S., Sum rules for axial-vector coupling-constant renormalization B1 (1967) 117
Iwao, S., Spectral-function sum rules for currents carrying spin 2 B6 (1968) 71
Jackiw, R., Remarks concerning the possibility of finite charge renormalization in spinor electrodynamics B5 (1968) 158
Jackiw, R., The overlap function in many-body theory B6 (1968) 233
Jacob, G., see Dillenburg B10 (1969) 27
Jacobsen, T., see Donald B6 (1968) 174
Jafar, J. D., see Dutton B9 (1969) 594
Jain, P. L., see McNulty B5 (1968) 181
James, F., see Conforto B3 (1967) 469
James, F., H. Briand, Experimental investigation of $\Delta S/\Delta Q$ rule in leptonic K^0 decays B8 (1968) 365
James, K. R., Mass relations of baryons in a quark model B7 (1968) 336
James, R., see Astier B10 (1969) 65
Janout, Z., Yu. M. Kazarinov, F. Lehar, P. Winternitz, Simultaneous phase shift analysis of 210 MeV nucleon-nucleon scattering B4 (1968) 527
Jarlskog, C., H. Pilkuhn, Eta decays with e^+e^- and $\mu^+\mu^-$ pairs B1 (1967) 264
Jarlskog, C., H. Pilkuhn, The decay $\eta \to \pi^0 \gamma e^+ e^-$ B3 (1967) 73
Jarlskog, C., Radiative corrections to the non-leptonic Σ decays and the $\Delta I = \frac{1}{2}$ rule B3 (1967) 365
Jarvis, O. N., see Cox B4 (1968) 353
Jasselette, P., Application of Kramers' symbolic method to SU(3) B1 (1967) 521

Jasselette, P., The reduction of direct products in SU(3) B1 (1967) 529
Jaus, W., Radiative corrections to β-decay including strong interaction effects B6 (1968) 408
Jenkovszky, L., Dispersion sum rules for non-decreasing amplitudes B5 (1968) 119
Jersák, J., J. Stern, Relativistic non-invariance symmetries generated by local currents B7 (1968) 413
Jha, S.K., see Aditya B5 (1968) 250
Johnson, R.C., Are there three vacuum trajectories? B5 (1968) 673
Johnssen, W., see Brall B1 (1967) 668
Joldersma, T., see Buchner B9 (1969) 286
Jones, H.F., M.D. Scadron, Reggeization of invariant amplitudes B4 (1968) 267
Jones, H.F., M.D. Scadron, Invariant amplitudes and third-order low-energy theorem for nucleon Compton scattering B10 (1969) 17
Jongejans, B., see Buchner B9 (1969) 286
Jongejans, B., see Bassompierre B9 (1969) 295
Jonker, C.C., see Lodder B2 (1967) 383
Jonker, J.E., see De Vries B6 (1968) 213
Joshi, G.C., see Cook B10 (1969) 253
Jousset, J., see Gerber B5 (1968) 75
Junkmann, B., E. Keppel, G. Kraus, R. Schulte, R. Steinberg, C. Grote, S. Nowak, E. Ryseck, H.J. Schreiber, K. Böckmann, H. Drevermann, N. Stief, K. Sternberger, B. Wagini, K.W.J. Barnham, V.T. Cocconi, J.D. Hansen, G. Kellner, W. Kittel, D.R.O. Morrison, H. Tøfte, A. Mihul, M. Bardadin-Otwinowska, T. Hofmokl, L. Michejda, S. Otwinowski, R. Sosnowski, M. Szeptycka, W. Wojcik, A. Wroblewski, Six-prong events produced in 16 GeV/c π^-p interactions B8 (1968) 471
Jurić, M., S. Popov, Light fragments with $Z \geq 4$ emitted in the interaction of 1.5 GeV/c K^- mesons with Ag and Br nuclei B8 (1968) 565
Just, W., see Cuevas B1 (1967) 411
Kabir, P.K., see Weis B4 (1968) 643
Kadyshevsky, V.G., Quasipotential type equation for the relativistic scattering amplitude B6 (1968) 125
Kaftanov, V., see Böhm B9 (1969) 605
Kajantie, K., J.S. Trefil, The quark dissociation model of photoproduction B1 (1967) 648
Kajantie, K., J.S. Trefil, Charge- and strangeness-exchange reactions in the quark model B2 (1967) 243
Kajantie, K., see Byckling B9 (1969) 568
Källen, G., Radiative corrections to β-decay and nucleon form factors B1 (1967) 225
Kamal, A.A., G.K. Rao, Analysis of proton-nucleon interactions in nuclear emulsions at incident momenta 24 and 27 GeV/c B2 (1967) 135
Kamal, A.A., Y.V. Rao, R. Rao, Some aspects of π^--N interactions at 17.2 GeV/c B6 (1968) 523
Kamal, A.N., see Levers B6 (1968) 32
Kamefuchi, S., see Watanabe B2 (1967) 360
Kamefuchi, S., see Watanabe B8 (1968) 573
Kamefuchi, S., see Ohnuki B9 (1969) 537
Kannelopoulos, Th., see Bowcock B4 (1968) 417
Kapadia, P.D., Two-pion exchange contribution to the nucleon-nucleon potential B3 (1967) 291
Karl, G., E. Obryk, Baryon electromagnetic transitions in the three-triplet model B6 (1968) 102
Karl, G., E. Obryk, On wave functions for three-body systems B8 (1968) 609
Karshon, U., see Scheuer B8 (1968) 503

Karshon, U., see Alexander B10 (1969) 554
Kaschluhn, F., *N/D* approach to the πN scattering in the P_{11} state with short-range forces B3 (1967) 139
Kaschluhn, F., E. Wieczorek, W. Zoellner, Singular equal-time behaviour of current commutators in perturbation theory B8 (1968) 84
Kastrup, H.A., Large-angle scattering at very high energies and unitary symmetries B1 (1967) 309
Kastrup, H.A., Gauge properties of the Galilei space B7 (1968) 545
Kastrup, H.A., Quantum mechanics as a broken symmetry B7 (1968) 574
Katyal, D.L., see Mitra B5 (1968) 308
Kaufmann, H.H., see Aderholz B8 (1968) 45
Kawakami, A., Lagrangian formalism for massive Rarita-Schwinger fields with spin $\frac{5}{2}$ B2 (1967) 33
Kayas, G., J. Le Guyader, M. Sene, T.P. Yiou, J. Alitti, Nguyen Thuc Diem, G. Smadja, J. Ginestet, D. Manesse, Tran Ha Ahn, $pp \to pp\pi^+\pi^-$ interactions at 8.1 GeV/*c* B5 (1968) 169
Kazarinov, Yu.M., see Janout B4 (1968) 527
Kellner, G., see Bartsch B4 (1968) 326
Kellner, G., see Boesebeck B4 (1968) 501
Kellner, G., see Aderholz B5 (1968) 567
Kellner, G., see Aderholz B5 (1968) 606
Kellner, G., see Aderholz B7 (1968) 111
Kellner, G., see Bartsch B7 (1968) 345
Kellner, G., see Bartsch B8 (1968) 9
Kellner, G., see Aderholz B8 (1968) 45
Kellner, G., see Junkmann B8 (1968) 471
Kellner, G., see Aderholz B8 (1968) 485
Keppel, E., see Bartsch B4 (1968) 326
Keppel, E., see Aderholz B5 (1968) 567
Keppel, E., see Aderholz B5 (1968) 606
Keppel, E., see Aderholz B7 (1968) 111
Keppel, E., see Bartsch B7 (1968) 345
Keppel, E., see Bartsch B8 (1968) 9
Keppel, E., see Aderholz B8 (1968) 45
Keppel, E., see Junkmann B8 (1968) 471
Ketley, I.J., see Caudrey B6 (1968) 671
Khalil, A.B., Potential model of SU(3)-symmetry breaking for mesons B8 (1968) 460
Khanh, N.H., see Armenteros B10 (1969) 459
Kielanowski, P., J. Werle, Asymmetry moments of angular distributions B4 (1968) 682
Kielanowski, P., A new type of non-dynamical parity test for unstable particles B7 (1968) 674
Kienzle, W., see Dubal B3 (1967) 435
Kim, C.W., see Griffiths B4 (1968) 309
Kim, C.W., see Griffiths B6 (1968) 49
King, R.C., see Caudrey B6 (1968) 671
Kinoshita, K., Y. Kinoshita, Dynamical separation of the resonance term from the background term B7 (1968) 121
Kinoshita, Y., see Kinoshita B7 (1968) 121
Kirsopp, R.G., see Donnachie B10 (1969) 433
Kittel, W., see Bartsch B4 (1968) 326
Kittel, W., see Aderholz B5 (1968) 567
Kittel, W., see Aderholz B5 (1968) 606
Kittel, W., see Aderholz B7 (1968) 111
Kittel, W., see Bartsch B8 (1968) 9
Kittel, W., see Aderholz B8 (1968) 45

Kittel, W., see Junkmann B8 (1968) 471
Kittel, W., see Aderholz B8 (1968) 485
Klabuhn, J., see Bohm B4 (1968) 511
Klabuhn, J., see Bohm B9 (1969) 1
Kleinknecht, K., see Depommier B4 (1968) 189
Kleinknecht, K., see Depommier B4 (1968) 432
Kleinknecht, K., see Böhm B9 (1969) 605
Kluge, E., see Tripp B3 (1967) 10
Kluge, E., see Armenteros B3 (1967) 592
Kluge, E., see Armenteros B8 (1968) 183
Kluge, E., see Armenteros B8 (1968) 195
Kluge, E., see Armenteros B8 (1968) 216
Kluge, E., see Armenteros B8 (1968) 223
Kluge, E., see Armenteros B8 (1968) 233
Kluge, E., see Conforto B8 (1968) 265
Kluge, E., see Armenteros B10 (1969) 432
Klugow, J., see Bartsch B4 (1968) 326
Klugow, J., see Aderholz B5 (1968) 606
Kluyver, J.C., see Barloutaud B9 (1969) 493
Koba, Z., see Bjørneboe B7 (1968) 53
Koba, Z., Double and multiple Breit-system helicity amplitudes B8 (1968) 351
Koba, Z., M. Namiki, Structure of overlap function and peripherality of production processes B8 (1968) 413
Koba, Z., H.B. Nielsen, Reaction amplitude for n mesons, a generalization of the Veneziano-Bardakçi-Ruegg-Virasoro model B10 (1969) 633
Kobayashi, S., see Sanada B4 (1968) 379
Koch, W., see Hyams B7 (1968) 1
Koch, W., see Hyams B9 (1969) 460
Kochkin, V.I., see Suslenko B5 (1968) 657
Kochkin, V.I., see Suslenko B8 (1968) 232
Koetke, D., see Block B5 (1968) 451
Kohaupt, R.D., On the separation of infrared contributions to radiative corrections in terms of an exponential factor under general experimental conditions B8 (1968) 627
Kohli, J.M., I.S. Mittra, M.B. Singh, Cascade model analysis of the interactions of 17.2 GeV mesons with heavy emulsion nuclei B2 (1967) 164
Kohli, J.M., Some aspects of transverse momentum in 17.2 GeV pion-nucleon interactions B4 (1968) 443
Kohli, J.M., Central and peripheral interactions in pion-nucleon inelastic events at 17.2 GeV B4 (1968) 620
Kohmura, T., K^- capture by ^{4}He and KN s-interaction B2 (1967) 225
Kok, L.P., see Ali B3 (1967) 547
Kok, L.P., see Grypeos B4 (1968) 335
Kokkedee, J.J.J., L. Van Hove, Quark model and annihilation at high energy B1 (1967) 169
Kolar, H., see Brall B1 (1967) 668
Kölbig, K.S., B. Margolis, Particle production in nuclei and unstable particle cross sections B6 (1968) 85
Koltun, D.S., A. Reitan, Absorption of s-orbit π^- mesons by ^{4}He B4 (1968) 629
Komy, S.R., see Antoniou B5 (1968) 195
Kondratyuk, L.A., L.A. Ponomarev, V.I. Zakharov, On the possibility of measuring the Σ^0-Λ transition magnetic moment in the reaction $\pi^- p \to \Lambda K^0 \gamma$ B5 (1968) 463
Konno, K., see Ishida B2 (1967) 307
Kopaleishvili, T.I., The $\pi^{\pm}$NN processes on light nuclei B1 (1967) 335
Korenman, G.Ya., see Balashov B1 (1967) 158
Korotkih, V.L., see Balashov B1 (1967) 158

Kosterlitz, J.M., A double Regge model of production process B9 (1969) 273
Kotański, A., K. Zalewski, A simple method of presenting joint decay distributions for pairs of resonances B4 (1968) 559
Kotański, A., see Chiu B7 (1968) 615
Kotański, A., see Chiu B8 (1968) 553
Kozłowski, M., J. Werle, Non-dynamical integral method for parity determination B1 (1967) 362
Kræmmer, A.B., see Brene B9 (1969) 543
Kraft, C., see Aderholz B7 (1968) 111
Kramer, G., K. Schilling, L. Stodolsky, "Absorption effects" for high-energy photons B5 (1968) 317
Krammer, M., D. Schildknecht, Vector meson dominance model and $\pi^{\pm}$ production by unpolarized and linearly polarized photons B7 (1968) 583
Kraus, G., see Boesebeck B4 (1968) 501
Kraus, G., see Aderholz B5 (1968) 567
Kraus, G., see Aderholz B5 (1968) 606
Kraus, G., see Aderholz B7 (1968) 111
Kraus, G., see Bartsch B7 (1968) 345
Kraus, G., see Bartsch B8 (1968) 9
Kraus, G., see Aderholz B8 (1968) 45
Kraus, G., see Junkmann B8 (1968) 471
Kraus, G., see Aderholz B8 (1968) 485
Kraus, K., see Hegerfeldt B3 (1967) 189
Krecker, U., see Bohm B4 (1968) 511
Krecker, U., see Bohm B9 (1969) 1
Kreuzer, H.J., see Bertero B3 (1967) 195
Kreuzer, H.J., see Bertero B5 (1968) 619
Krivsky, I.Yu., see Fushchich B7 (1968) 79
Kruse, U., see Bartsch B4 (1968) 326
Kruse, U., see Boesebeck B4 (1968) 501
Kruse, U., see Aderholz B5 (1968) 567
Kruse, U., see Aderholz B5 (1968) 606
Kruse, U., see Aderholz B7 (1968) 111
Kruse, U., see Bartsch B7 (1968) 345
Kruse, U., see Bartsch B8 (1968) 9
Krzywicki, A., On the peripherality of multiple production processes B6 (1968) 554
Kübeck, H., see Hilpert B8 (1968) 535
Kuhn, D., see Aderholz B7 (1968) 111
Kundt, U., see Buchner B9 (1969) 286
Kupsch, J., see Dietz B2 (1967) 581
Kupsch, J., see Dietz B6 (1968) 639
Kuriyama, K., see Sanada B4 (1968) 379
Kuti, J., Do we really understand the $A_1\rho^{\pi}$ system? B6 (1968) 655
Labrosse, G., see Foster B6 (1968) 107
Labrosse, G., see Foster B8 (1968) 174
Lacaze, R., On a parity-violating nucleon-nucleon potential B4 (1968) 657
Lafoucrière, J., see El-Baz B2 (1967) 51
Lafoucrière, J., see Castel B2 (1967) 296
Lagnaux, J.P., see Daum B6 (1968) 273
Lagnaux, J.P., see Daum B6 (1968) 617
Lagnaux, J.P., see Daum B7 (1968) 19
Lai, C.S., P.D. De Souza, Current-density, current-density commutation relations and the VVP couplings B6 (1968) 649
Lai, C.S., Sum rules for weak radiative decays of pseudoscalar mesons and the ratio F_K/F_π B9 (1969) 521
Laloum, M., see Barloutaud B9 (1969) 493
Lamidey, G., see Scheuer B8 (1968) 503

Landaud, G., J. P. Patry, M. Schérer, Utilisation d'une chambre à étincelles pour mesurer la polarisation des muons cosmiques d'impulsion 750 MeV/c B1 (1967) 7
Landaud, G., see Bizard B5 (1968) 515
Lánik, J., Dynamical algebra and potentials B2 (1967) 263
Lánik, J., Erratum B4 (1968) 432
Lánik, J., Broken symmetry and non-invariance groups B5 (1968) 523
Lanius, K., see Brall B1 (1967) 668
Lanius, K., see Boesebeck B4 (1968) 501
Lanius, K., see Bartsch B7 (1968) 345
Lanius, K., see Bartsch B8 (1968) 9
Lannutti, J. E., see Reynolds B6 (1968) 633
Lasinski, T., see Conforto B8 (1968) 265
Laurens, G., see Baton B3 (1967) 349
Lauscher, P., see Hilpert B8 (1968) 535
Laville, J. J., see Bizard B5 (1968) 515
Le Bellac, M., see Contogouris B5 (1968) 683
Lechanoine, C., see Dubal B3 (1967) 435
Lee, B. W., Renormalization of the σ-model B9 (1969) 649
Lee, T. D., G. C. Wick, Negative metric and the unitarity of the S-matrix B9 (1969) 209
Lee, T. D., G. C. Wick, Unitarity in the $N\theta\theta$ sector of a soluble model with indefinite metric B10 (1969) 1
Lefèbvres, F., see Bizard B5 (1968) 515
Le Guyader, J., see Kayas B5 (1968) 169
Lehar, F., V. Petrzilka, M. Suk, Momentum spectra of secondary particles in (π^-, N) interactions at 7 GeV B1 (1967) 199
Lehar, F., see Janout B4 (1968) 527
Leikin, E. M., see Aleksandrov B10 (1969) 145
Leith, D. W. G., see Tripp B3 (1967) 10
Leith, D. W. G., see Armenteros B3 (1967) 592
Leith, D. W. G. S., see Armenteros B8 (1968) 233
Lemeilleur, F., see Bizard B5 (1968) 515
Lendyel, V. I., E. V. Tovtin, On the solution of an equation for singlet $^1S_0$-wave of pp-scattering B5 (1968) 346
Leroy, J.-P., On the additivity of conserved charge operators B6 (1968) 390
Letourneux, J., see Eisenberg B3 (1967) 47
Leung, J. S., Y. Nogami, Charge dependent effects of the photon-pion exchange process in the N-N interaction B7 (1968) 527
Leung, J. S., Charge-symmetry violating effects of the photon-pion exchange process in Λ-N interaction B10 (1969) 233
Levers, R. G., A. N. Kamal, Anomalous nucleon magnetic moment sum rules without current algebra B6 (1968) 32
Levi-Setti, R., see Gajewski B1 (1967) 105
Levi-Setti, R., see Tripp B3 (1967) 10
Levi-Setti, R., see Armenteros B3 (1967) 592
Levi-Setti, R., see Harmsen B4 (1968) 277
Levi-Setti, R., see Armenteros B8 (1968) 233
Levi-Setti, R., see Conforto B8 (1968) 265
Levrat, B., see Dubal B3 (1967) 435
Lévy, F., see Astier B10 (1969) 65
Lewin, K., Test of cross section sum rules for nucleon magnetic moments B6 (1968) 41
Lichard, P., J. Pišút, The effect of high-mass channels on electromagnetic mass differences of baryons and vector mesons B1 (1967) 511
Lichard, P., J. Pišút, Electromagnetic mass differences of pseudoscalar and vector mesons in bound-state bootstrap models B2 (1967) 8

Lichard, P., The effect of electromagnetic corrections to the strong interactions on the nucleon mass difference in a reciprocal bootstrap model B8 (1968) 339
Lillestøl, E., see Foster B6 (1968) 107
Lillestøl, E., see Foster B8 (1968) 174
Limentani, S., see Donald B6 (1968) 174
Linglin, D., see Bassompierre B9 (1969) 295
Linke, V., see Bender B9 (1969) 141
Lipkin, H.J., Symmetry without symmetry in the quark model B1 (1967) 597
Lipkin, H.J., Simple branching ratios and sum rules in peripheral reactions B7 (1968) 321
Lipkin, H.J., Exchange degeneracy, flat total cross sections and the absence of exotic resonances B9 (1969) 349
Lipshutz, N.R., see Cook B5 (1968) 140
Lo, S.Y., Field-current identity, universality and $K_{\ell 3}$ decay B7 (1968) 68
Lo, S.Y., The shape of mesons B9 (1969) 10
Lobov, G.A., E.P.Shabalin, P-odd effects in (ep) and (μp) scattering B9 (1969) 75
Locci, M.A., see Castagnoli B2 (1967) 369
Locher, M.P., Relativistic treatment of structure in the Coulomb interference problem B2 (1967) 525
Locher, M.P., see Fäldt B10 (1969) 283
Locke, D.H., see Sisterson B6 (1968) 205
Lodder, A., C.C.Jonker, On the calculation of the total muon capture rates for ^{6}Li and ^{7}Li B2 (1967) 383
Lohrmann, E., see Cuevas B1 (1967) 411
Lohrmann, E., see Brall B1 (1967) 668
Loiseau, B.A., Y.Nogami, Three-nucleon force B2 (1967) 470
Loiseau, B.A., see Bhaduri B3 (1967) 380
Loiseau, B.A., Effect of three-body ΛNN intermediate-range potential in light hypernuclei and in nuclear matter B9 (1969) 169
Lokanathan, S., see Aditya B5 (1968) 250
Lorenz, E., see Hyams B7 (1968) 1
Lorenz, E., see Hyams B9 (1969) 460
Łoskiewicz, J., see Bartsch B4 (1968) 326
Łoskiewicz, J., see Aderholz B5 (1968) 606
Łoskiewicz, J., see Aderholz B7 (1968) 111
Loubaton, J.P., J.Tran Thanh Van, Negaton-positon pair creation in pion-nucleon interactions B2 (1967) 342
Louedec, C., see Armenteros B10 (1969) 459
Love, A., R.G.Moorhouse, Sidewise dispersion relations and $J = \frac{1}{2}$ baryon resonances B9 (1969) 577
Lovell, S.P., see Davis B1 (1967) 434
Lovell, S.P., see Bohm B4 (1968) 511
Lovell, S.P., G.Schorochoff, A study of $(\Sigma^{\pm}\pi^{\mp})$ pair emission from K^- meson absorptions at rest by emulsion nuclei B5 (1968) 381
Lovell, S.P., see Bohm B9 (1969) 1
Lovitch, L., S.Rosati, Velocity-dependent potentials and the binding energy of the triton B1 (1967) 369
Lucas, C., see Okamoto B2 (1967) 347
Lüke, D., see Brall B1 (1967) 668
Lüke, D., see Hilpert B8 (1968) 535
Lukierski, J., see Cukierda B5 (1968) 508
Lundby, A., see Banaigs B8 (1968) 31
Lundby, A., see Baker B9 (1969) 249
Lundby, A., see Banaigs B9 (1969) 640
Lusignoli, M., see Davies B3 (1967) 616
Lusignoli, M., see Buccella B6 (1968) 430

Lütjens, G., see Hyams	B7	(1968)	1
Lütjens, G., see Hyams	B9	(1969)	460
Lynch, H.L., see Böhm	B9	(1969)	605
Lyons, L., see Sisterson	B6	(1968)	205
Lyons, L., Kinematics of momentum transfers in many-body final states	B7	(1968)	83
Lyons, L., The reaction $pp \rightarrow N^{*}p\pi^{-}$ at 6 GeV/c	B8	(1968)	686
Lyons, L., see Paler	B10	(1969)	221
Lys, J.E.A., see D'Andlau	B5	(1968)	693
MacLonald, F., see Sisterson	B6	(1968)	205
Mack, G., Partially conserved dilatation current	B5	(1968)	499
Maekawa, T., On the effect of the U(3)-invariant interactions in a bound system	B3	(1967)	115
Maglic, B.C., see Dubal	B3	(1967)	435
Mahanthappa, K.T., see Chang	B6	(1968)	200
Majerotto, W., G.Otter, P.Möbius, Relativistic Dalitz plot for the spin-parity determination of the L-meson	B2	(1967)	449
Majerotto, W., see Bartsch	B8	(1968)	9
Malin, S., see Barut	B9	(1968)	194
Manesse, D., see Kayas	B5	(1968)	169
Maor, U., see Alexander	B5	(1968)	1
Maor, U., see Alexander	B7	(1968)	281
Maor, U., see Alexander	B10	(1969)	554
March, P.V., see Gajewski	B1	(1967)	105
March, P.V., see Bohm	B4	(1968)	511
March, P.V., see Bohm	B9	(1969)	1
Maréchal, B., see Conforto	B3	(1967)	469
Maréchal, B., see Astier	B10	(1969)	65
Margolis, B., Production of pions by protons on nuclei and nuclear shape	B4	(1968)	433
Margolis, B., see Kölbig	B6	(1968)	85
Margolis, B., Elastic scattering of vector mesons by protons from photoproduction	B6	(1968)	687
Margolis, B., C.L.Tang, Photon-nucleus elastic and total cross sections	B10	(1969)	329
Maris, Th.A.J., see Dillenburg	B10	(1969)	27
Markytan, M., see Boesebeck	B4	(1968)	501
Markytan, M., see Aderholz	B5	(1968)	567
Markytan, M., see Aderholz	B5	(1968)	606
Markytan, M., see Aderholz	B7	(1968)	111
Markytan, M., see Bartsch	B8	(1968)	9
Markytan, M., see Aderholz	B8	(1968)	45
Markytan, M., Fit to $K^{*}(890)N$ production by means of reggeized helicity amplitudes	B10	(1969)	193
Martin, A.D., F.Poole, The comparison of $K^{\pm}p$ and $K^{\pm}n$ dispersion relations with experiments	B4	(1968)	467
Martin, A.D., R.Perrin, A new analysis of the low-energy $K^{+}p$ scattering data	B10	(1969)	125
Martin, A.D., N.M.Queen, G.Violini, Consistency tests of the low-energy $K^{-}p$ parametrizations	B10	(1969)	481
Martin, B.R , E.de Rafael, Phenomenological description of $K_S \rightarrow 2\gamma$ and $K_L \rightarrow 2\gamma$ decays	B8	(1968)	131
Martin Jr., H.J., see Galloway	B8	(1968)	545
Martin, M., see Dubal	B3	(1967)	435
Marx, E., see Goldberg	B3	(1967)	25
Massonnet, L., see Bressani	B9	(1969)	427
Massot, J.-N., see El-Baz	B2	(1967)	51

Mateev, M., see Desimirov B2 (1967) 218
Mateev, M.D., see Desimirov B4 (1968) 649
Matsuda, S., S.Oneda, Current algebra, infinite momentum and sum rules B9 (1969) 55
Matsuda, S., Superconvergent bootstrap, exchange degeneracy and fixed singularities in the complex J-plane B9 (1969) 113
Matthiae, G., The width of hadrons B7 (1968) 142
Matziolis, M., see Hilpert B8 (1968) 535
Mayeur, C., see Gajewski B1 (1967) 105
Mayeur, C., see Gajewski B2 (1967) 282
Mayeur, C., see Bohm B4 (1968) 511
Mayeur, C., see Coremans B4 (1968) 580
Mayeur, C., see Bohm B9 (1969) 1
McCulloch, R.D., see Cohn B1 (1967) 57
McCulloch, R.D., see Bugg B6 (1968) 246
McNulty, P.J., R.O.Breault, P.L.Jain, Single scattering of 5 GeV/c muons in nuclear emulsion B5 (1968) 181
Melissinos, A.C., see Berlinghieri B8 (1968) 333
Melsheimer, O., A new Lie group for the scalar SU(3) symmetric strong coupling theory B5 (1968) 479
Meng Ta-Chung, On the Regge pole model for isovector nucleon form factors B1 (1967) 219
Meng Ta-Chung, R.Strauss, H.Wunder, Regge-pole model for isospin-$\frac{3}{2}$ SPDF pion-nucleon partial-wave amplitudes B4 (1968) 425
Meng Ta-Chung, H.G.Schlaile, R.Strauss, On the single ρ Regge-pole exchange model and the πN charge-exchange process B7 (1968) 133
Mermikides, M.E., see Bartsch B4 (1968) 326
Mermikides, M.E., see Aderholz B5 (1968) 606
Mermikedes, M.E., see Bartsch B8 (1968) 9
Merrill, D., see Scheuer B8 (1968) 503
Merrill, D.W., see Barloutaud B9 (1969) 493
Merrill, D.W., see Barloutaud B10 (1969) 683
Merwe, P.Du T.van der, SU(3) theory of the three-body leptonic decays of pseudoscalar mesons B3 (1967) 601
Mes, H., see Hébert B4 (1968) 244
Meyer, A., see Brall B1 (1967) 668
Meyer, A., see Hilpert B8 (1968) 535
Meyer, A.F.A., On the photoproduction of the Δ^{++} isobar B9 (1969) 244
Meyer, H., see Brall B1 (1967) 668
Meyer, J., see Tripp B3 (1967) 10
Meyer, J., see Armenteros B3 (1967) 592
Meyer, J., see Armenteros B8 (1968) 183
Meyer, J., see Armenteros B8 (1968) 195
Meyer, J., see Armenteros B8 (1968) 216
Meyer, J., see Armenteros B8 (1968) 223
Meyer, J., see Armenteros B8 (1968) 233
Meyer, J., see Burgun B8 (1968) 447
Meyer, J., see Armenteros B10 (1969) 432
Meyerhof, W.E., see Bressani B9 (1969) 427
Miah, M.A.W., Helicity formalism and the superconvergent sum-rules for the process $N^* + \pi \rightarrow N + \rho$ B5 (1968) 109
Michael, C., Regge-pole absorption model for πN charge exchange and cross-over B8 (1968) 431
Michael, C., see Dass B9 (1969) 549
Michejda, L., An attempt to determine Van Hove's overlap function and shadow elastic scattering from the measurements of inelastic π^+p interactions at 8 GeV/c B4 (1968) 113

Michejda, L., see Hofmokl B4 (1968) 573
Michejda, L., see Junkmann B8 (1968) 471
Micu, L., Scalar meson widths B6 (1968) 367
Micu, L., Decay rates of meson resonances in a quark model B10 (1969) 521
Mihul, A., see Bartsch B7 (1968) 345
Mihul, A., see Aderholz B8 (1968) 45
Mihul, A., see Junkmann B8 (1968) 471
Miller, D.B., see Sisterson B6 (1968) 205
Miller, D.J., see Huson B8 (1968) 391
Ming-Liang Shen, On the mechanism of high-energy nucleon-nucleus collisions B3 (1967) 77
Minguzzi-Ranzi, A., see Scheuer B8 (1968) 503
Minguzzi-Ranzi, A., see Barloutaud B9 (1969) 493
Minten, A., see Tripp B3 (1967) 10
Minten, A., see Armenteros B3 (1967) 592
Minten, A., see Armenteros B8 (1968) 233
Minten, A., see Armenteros B10 (1969) 459
Mitra, A.N., D.L.Katyal, s-Wave quarks and baryon resonances B5 (1968) 308
Mitter, H., see Breitenlohner B7 (1968) 443
Mitter, P.K., L.J.Swank, Chiral dynamics, SU(3) × SU(3) field algebra and symmetry breaking B8 (1968) 205
Mittra, I.S., see Kohli B2 (1967) 164
Mittra, I.S., see Buchner B9 (1969) 286
Möbius, P., see Majerotto B2 (1967) 449
Moebes, J., see Brall B1 (1967) 668
Molinari, A., see Ericson B10 (1969) 501
Montanet, L., see Conforto B3 (1967) 469
Montanet, L., see D'Andlau B5 (1968) 693
Montanet, L., see Foster B6 (1968) 107
Montanet, L., see Foster B8 (1968) 174
Montanet, L., see Astier B10 (1969) 65
Montret, M., see Gerber B5 (1968) 75
Montvay, I., see Csikor B5 (1968) 492
Montvay, I., see Csikor B7 (1968) 268
Moore, R.S., see Donald B6 (1968) 174
Moore, R.S., see Frodesen B10 (1969) 307
Moorhouse, R.G., see Love B9 (1969) 577
Morgan, D., G.Shaw, Low-energy pion-pion parameters from forward dispersion relations B10 (1969) 261
Morrison, D.R.O., see Bartsch B4 (1968) 326
Morrison, D.R.O., see Boesebeck B4 (1968) 501
Morrison, D.R.O., see Aderholz B5 (1968) 567
Morrison, D.R.O., see Aderholz B5 (1968) 606
Morrison, D.R.O., see Aderholz B7 (1968) 111
Morrison, D.R.O., see Bartsch B7 (1968) 345
Morrison, D.R.O., see Bartsch B8 (1968) 9
Morrison, D.R.O., see Aderholz B8 (1968) 45
Morrison, D.R.O., see Junkmann B8 (1968) 471
Morrison, D.R.O., see Aderholz B8 (1968) 485
Moskalev, V.I., see Bartsch B7 (1968) 345
Mück, H., see Brall B1 (1967) 668
Mueller, G., J.W.Clark, The problem of lambda-particle binding in nuclear matter B7 (1968) 227
Mukherjee, N.C., see Aderholz B5 (1968) 567
Mukherjee, N.C., see Aderholz B5 (1968) 606
Mukherjee, N.C., see Aderholz B7 (1968) 111
Mukherjee, S., C.S.Shastry, Analytical studies in charged-particle partial-wave amplitude B3 (1967) 1

Muller, F., see Buchner B9 (1969) 286
Muller, F., see Bassompierre B9 (1969) 295
Müller, H.J.W., see Aly B3 (1967) 401
Müller, H.J.W., Daughter trajectories in the Wick-Cutkosky model of the Bethe-Salpeter equation B5 (1968) 277
Müller, K., see Hilpert B8 (1968) 535
Müller, V.F., B.Stech, Octet dominance in weak, electromagnetic and strong interactions B3 (1968) 464
Müller, V.F., J.Rothleitner, Algebra of fields and electromagnetic mass differences B5 (1968) 373
Muryn, B., see Białas B6 (1968) 483
Musette, M., Application du développement en paramètre d'impact à la diffusion élastique π-p à haute énergie B4 (1968) 131
Mütter, K.H., Regge-pole model for the invariant functions of the nucleon-nucleon and meson-nucleon scattering B8 (1968) 311
Myhrer, F., see Reitan B3 (1968) 130
Nagamine, K., see Sanada B4 (1968) 379
Nair, S.C.K., see Devanathan B2 (1967) 329
Naisse, J., see Buchner B9 (1969) 286
Nakagawa, M., N.N.Trofimenkoff, S-wave non-leptonic hyperon decays and models of baryons B5 (1968) 93
Namiki, M., see Koba B8 (1968) 413
Narjoux, J.L., see Armenteros B8 (1968) 183
Narjoux, J.L., see Armenteros B8 (1968) 216
Narjoux, J.L., see Armenteros B10 (1969) 459
Nash, W.F., see Baber B4 (1968) 539
Nash, W.F., see Baber B4 (1968) 549
Nash, W.F., see Palmer B9 (1969) 315
Nasrallah, N.F., Dispersion calculation of the π-π scattering lengths B8 (1968) 622
Nath, P., see Arnowitt B5 (1968) 115
Nath, P., see Arnowitt B10 (1969) 578
Neal, H.A., see Dubal B3 (1967) 435
Nef, C., see Dubal B3 (1967) 435
Nellen, B., see Brall B1 (1967) 668
Nguyen, H.K., see Armenteros B8 (1968) 183
Nguyen, H.K., see Armenteros B8 (1968) 216
Nguyen thi Hong, Behaviour of the diffraction peak for particles with arbitrary spins B8 (1968) 303
Nguyen Thuc Diem, see Kayas B5 (1968) 169
Nguyen-Trung, C., Y.Sakamoto, Correlation function and π^- meson absorption B1 (1967) 139
Nicodemi, F., see Balachandran B6 (1968) 557
Niedermayer, F., G.Pócsik, Weinberg sum rules and the f$\pi\pi$ vertex B10 (1969) 35
Nielsen, H.B., see Koba B10 (1969) 633
Nishijima, K., L.J.Schwank, Violation of *CP* invariance and non-leptonic decays B3 (1967) 553
Nishijima, K., L.J.Schwank, Violation of *CP* invariance and the electric dipole moment of the neutron B3 (1967) 565
Noga, M., The mass spectrum of the baryon excited states in the static model B1 (1967) 85
Noga, M., Electromagnetic form factors in the bootstrap theory B1 (1967) 301
Noga, M., The series of hyperon resonances in the static bootstrap model B2 (1967) 80
Noga, M., Cross-section sum rules in the static model B2 (1967) 532
Noga, M., see Cronström B7 (1968) 201
Noga, M., C.Cronström, Unified static bootstrap for even- and odd-parity baryon excited states B9 (1969) 89

Noga, M., Electromagnetic properties of the baryons in the Capps bootstrap model B9 (1969) 481
Nogami, Y., see Bhaduri B1 (1967) 269
Nogami, Y., see Bhaduri B2 (1967) 316
Nogami, Y., see Loiseau B2 (1967) 470
Nogami, Y., see Downs B2 (1967) 459
Nogami, Y., see Bhaduri B3 (1967) 380
Nogami, Y., see Leung B7 (1968) 527
Noirot, Y., M. Rimpault, Y. Saillard, Contribution of N and Δ exchanged Regge trajectories to high-energy backward meson-baryon scattering B10 (1969) 368
Nojiri, Y., see Sanada B4 (1968) 379
Nowak, S., see Boesebeck B4 (1968) 501
Nowak, S., see Aderholz B5 (1968) 567
Nowak, S., see Aderholz B7 (1968) 111
Nowak, S., see Bartsch B7 (1968) 345
Nowak, S., see Aderholz B8 (1968) 45
Nowak, S., see Junkmann B8 (1968) 471
Nowak, S., see Aderholz B8 (1968) 485
Nuyts, J., see Balachandran B9 (1969) 81
Nwachuku, C.O., Some qualitative aspects of O(3,1) partial-wave analysis of off-forward N-N scattering B9 (1969) 501
Nydahl, G., B. Forkman, Photopion reactions in complex nuclei B7 (1968) 97
Nyman, E.M., Magnetic moments and pion currents in nuclear matter B1 (1967) 535
Oades, G.C., see Berends B3 (1967) 569
Oberlack, H., see Armenteros B8 (1968) 183
Oberlack, H., see Armenteros B8 (1968) 195
Oberlack, H., see Armenteros B8 (1968) 216
Oberlack, H., see Armenteros B8 (1968) 223
Oberlack, H., see Conforto B8 (1968) 265
Oberlack, H., see Armenteros B10 (1969) 432
Obryk, E., see Karl B6 (1968) 102
Obryk, E., see Karl B8 (1968) 609
Ochs, W., Longitudinal momentum plots in three-body final states with strangeness minus one B10 (1969) 453
Ohnuki, Y., S. Kamefuchi, Conservation of the number of fermions B9 (1969) 537
Okamoto, K., C. Lucas, Electromagnetic energy difference of ^{3}H and ^{3}He and charge asymmetry of nuclear forces B2 (1967) 347
Okamoto, K., Inappropriateness of the anomalous magnetic moment as a test of quantum electrodynamics B4 (1968) 226
Olsson, M., see Barger B5 (1968) 411
O'Neall, J.S., see Huson B8 (1968) 391
Oneda, S., see Matsuda B9 (1969) 55
O'Reilly, M., see Davis B1 (1967) 434
Osborn, H., S. Zienau, Equivalence of the Lee and Zachariasen models B1 (1967) 180
Osborne, P.M., J.C. Taylor, Reggeization of kinematically free amplitudes B10 (1969) 213
O'Sullivan, D., see Bohm B4 (1968) 511
O'Sullivan, D., see Bohm B9 (1969) 1
Otter, G., see Majerotto B2 (1967) 449
Otter, G., see Bartsch B4 (1968) 326
Otter, G., see Aderholz B5 (1968) 567
Otter, G., see Aderholz B5 (1968) 606
Otter, G., see Aderholz B7 (1968) 111
Otter, G., see Bartsch B8 (1968) 9

Otwinowski, S., see Hofmokl B4 (1968) 573
Otwinowski, S., see Junkmann B8 (1968) 471
Pakvasa, S., S. F. Tuan, The SU(3) structure of negative-parity baryon states B8 (1968) 95
Paler, K., see Sisterson B6 (1968) 205
Paler, K., see Aderholz B8 (1968) 485
Paler, K., P. Chaudhuri, L. K. Sisterton, A. W. Eskreys. L. Lyons. P. J. Finney, Production mechanism of some 6 GeV/c K^-p interactions B10 (1969) 221
Palev, C., see Antoniou B4 (1968) 479
Palev, C. P., see Antoniou B5 (1968) 195
Palevsky, H., see Igo B3 (1967) 181
Palmer, N. S., W. F. Nash, Cosmic ray muon intensities at 80° to the zenith B9 (1969) 315
Pandit, L. K., G. Rajasekaran, SU(3) symmetry breaking in semi-leptonic decays B9 (1969) 531
Pape, L., see Bassompierre B9 (1969) 295
Partensky, A., M. Ericson, Influence of high π-N partial waves on energy-levels of π-mesic atoms B1 (1967) 382
Pascual, P., see Galindo B4 (1968) 295
Pascual, P., see Sanchez-Gomez B9 (1969) 153
Pascual, R., On break-up channels in muon capture by ^{3}He B3 (1967) 561
Paton, J. E., Chan Hong-Mo, Generalized Veneziano model with isospin B10 (1969) 516
Patry, J. P., see Landaud B1 (1967) 7
Patry, J. P., see Bizard B5 (1968) 515
Paul, E., see Hilpert B8 (1968) 535
Pauli, E., see Burgun B8 (1968) 447
Pearce, D., see Bartsch B4 (1968) 326
Pearce, W. A., W. A. Gale, I. M. Duck, Proton-proton bremsstrahlung B3 (1967) 241
Peeters, P., see Bassompierre B9 (1969) 295
Pelosi, V., see Armenteros B8 (1968) 183
Pelosi, V., see Armenteros B8 (1968) 216
Pelosi, V., see Armenteros B10 (1969) 459
Peres, A., see Frieder B4 (1968) 306
Perez-Y-Jorba, J., see Betourne B5 (1968) 355
Perreau, J. M., see Bassompierre B9 (1969) 295
Perrin, R., W. S. Woolcock, Calculations using the dispersion relations for forward $K^{\pm}p$ scattering B4 (1968) 671
Perrin, R., see Martin B10 (1969) 125
Peruzzo, L., see Donald B6 (1968) 174
Petersson, B., see Fäldt B3 (1967) 234
Petrzilka, V., see Lehar B1 (1967) 199
Philippe, G., see Cornille B5 (1968) 627
Phillips, R. J. N., Kinematic corrections to Regge-pole analysis of $\pi^- + p \to \eta^0 + n$ B1 (1967) 572
Phillips, R. J. N., Is there a pion conspiracy? B2 (1967) 394
Phillips, R. J. N., see Bryan B5 (1968) 201
Phillips, R. J. N., see Bryan B7 (1968) 481
Phillips, R. J. N., see Dass B9 (1969) 549
Picchi, P., see Castagnoli B2 (1967) 369
Pierre, F., see Armenteros B8 (1968) 183
Pierre, F., see Armenteros B8 (1968) 216
Pierre, F., see Armenteros B10 (1969) 459
Pilkuhn, H., see Jarlskog B1 (1967) 264
Pilkuhn, H., see Jarlskog B3 (1967) 73
Pilkuhn, H., see Fäldt B3 (1967) 234

Pilkuhn, H., Abundances of kaons and η-mesons in high-energy cosmic ray collisions B4 (1968) 439
Pilkuhn, H., see Ebel B7 (1968) 147
Pilkuhn, H., An alternative form of electron-muon universality B8 (1968) 500
Piotrowska, H., see Bassompierre B9 (1969) 295
Pišút, J., P. Bóna, The estimates of higher partial waves in pion-pion scattering B1 (1967) 65
Pišút, J., see Lichard B1 (1967) 511
Pišút, J., see Lichard B2 (1967) 8
Pišút, J., M. Roos, Rho-meson shape B6 (1968) 325
Pišút, J., On the low-energy behaviour of S-waves in $\pi\pi$ scattering B8 (1968) 159
Pišút, J., see Brunila B9 (1969) 461
Pišút, J., see Roos B10 (1969) 563
Plane, D. E., see Armenteros B8 (1968) 183
Plane, D. E., see Armenteros B8 (1968) 195
Plane, D. E., see Armenteros B8 (1968) 216
Plane, D. E., see Armenteros B8 (1968) 223
Plane, D. E., see Armenteros B10 (1969) 432
Plaut, G., Regge poles and polarization in K^-p elastic scattering B9 (1969) 306
Plouin, F., see Banaigs B8 (1968) 31
Plouin, F., see Baker B9 (1969) 249
Plouin, F., see Banaigs B9 (1969) 640
Pniewski, J., Z. Szymański, D. H. Davis, J. Sacton, Is a Λ^7Li hyperisomer possible? B2 (1967) 317
Pniewski, T., see Bohm B4 (1968) 511
Pniewski, T., see Bohm B9 (1969) 1
Pócsik, G., Weinberg sum rules for one-particle matrix elements B7 (1968) 30
Pócsik, G., see Niedermayer B10 (1969) 35
Pokorski, S., see Białas B10 (1969) 399
Polkinghorne, J. C., Non-Regge terms in single current amplitudes B3 (1967) 395
Polkinghorne, J. C., The multi-Reggeon model and Pomeranchuk exchange B6 (1968) 441
Pollmann, D., see Brall B1 (1967) 668
Ponomarev, L. A., see Kondratyuk B5 (1968) 463
Poole, F., see Martin B4 (1968) 467
Popov, S., see Jurić B8 (1968) 565
Porath, Y., see Bar-Avraham B1 (1967) 49
Porte, J. P., see Tripp B3 (1967) 10
Porte, J. P., see Armenteros B3 (1967) 592
Porte, J. P., see Armenteros B8 (1968) 183
Porte, J. P., see Armenteros B8 (1968) 195
Porte, J. P., see Armenteros B8 (1968) 216
Porte, J. P., see Armenteros B8 (1968) 223
Porte, J. P., see Armenteros B8 (1968) 233
Porte, J. P., see Armenteros B10 (1969) 432
Porth, P., see Aderholz B5 (1968) 567
Porth, P., see Aderholz B5 (1968) 606
Pose, A., see Brall B1 (1967) 668
Pose, A., see Hilpert B8 (1968) 535
Pose, D., see Bartsch B4 (1968) 326
Pose, D., see Aderholz B5 (1968) 567
Pose, D., see Aderholz B5 (1968) 606
Pose, D., see Aderholz B7 (1968) 111
Pose, D., see Bartsch B8 (1968) 9
Potter, D. C., see Hyams B7 (1968) 1
Potter, D. C., see Hyams B9 (1969) 460
Predazzi, E., see D'Auria B8 (1968) 645

Prešnajder, P., The graphical analysis of the pion-pion scattering data B10 (1969) 169
Prevost, J., see Armenteros B8 (1968) 183
Prevost, J., see Armenteros B8 (1968) 195
Prevost, J., see Armenteros B8 (1968) 216
Prevost, J., see Armenteros B8 (1968) 223
Prevost, J., see Armenteros B10 (1969) 432
Prokoshkin, Yu.D., see Vasilevsky B9 (1969) 673
Propach, E., see Hilpert B8 (1968) 535
Queen, N.M., A dispersion calculation of the real parts of the forward kaon-nucleon elastic scattering amplitudes at high energies B1 (1967) 207
Queen, N.M., see Davies B3 (1967) 616
Queen, N.M., A soluble model for the $\pi\Lambda$ interaction B10 (1969) 89
Queen, N.M., see Martin B10 (1969) 481
Rădescu, E., see Angelescu B1 (1967) 196
Radescu, E.E., see Ghika B10 (1969) 247
Rafique, M., see Cunningham B1 (1967) 21
Rafique, M., see Cunningham B1 (1967) 35
Rafique, M., see Cunningham B2 (1967) 237
Raghavan, S., M.Samiullah, O(3,1) symmetry and the high-energy reaction $K^+p \to K^*N^*$ B10 (1969) 48
Raghavan, S., M.Samiullah, O(3,1) symmetry and the high-energy reaction $K^+p \to K^{*+}(890)p$ B10 (1969) 53
Ragusa, S., A.H.Zimerman, The mass relation $m_A = \sqrt{2}m_\rho$ from current algebra and the Kroll-Ruderman theorem B4 (1968) 462
Railton, R., see Brookes B2 (1967) 424
Rajasekaran, G., see Pandit B9 (1969) 531
Rajasekaran, G., see Gupta B10 (1969) 11
Ramachandran, G., Recoil polarization and structure of the deuteron B2 (1967) 565
Raman, K., A dynamical symmetry scheme with triplets of integral charge B5 (1968) 125
Rangan, K.L., see Burgun B8 (1968) 447
Rao, A.S., see Samiullah B9 (1969) 514
Rao, A.S., see Samiullah B10 (1969) 390
Rao, G.K., see Kamal B2 (1967) 135
Rao, K.S., see Devanathan B2 (1967) 329
Rao, R., see Kamal B6 (1968) 523
Rao, Y.V., see Kamal B6 (1968) 523
Rastin, B.C., see Baber B4 (1968) 539
Rastin, B.C., see Baber B4 (1968) 549
Ravndal, F., T.Toyoda, A new approach to the SU(2) ⊗ SU(2) symmetry of the Kepler motion B3 (1967) 312
Rawls, J.M., Weak mass splittings B10 (1969) 323
Raymund, M., see Gajewski B1 (1967) 105
Raymund, M., see Conforto B8 (1968) 265
Read, E.J.C., see Donald B6 (1968) 174
Rédei, L.B., The mass and width of the $N^*_{\frac{1}{2}}$ resonance from quantum field theory without cut-off B10 (1969) 419
Reeder, D.D., see Barger B5 (1968) 411
Reignier, J., see Baton B3 (1967) 349
Reimann, G., see Brall B1 (1967) 668
Reitan, A., F.Myhrer, Pion exchange contributions to the low-energy photodisintegration of deuterons B3 (1967) 130
Reitan, A., Proton-proton bremsstrahlung B3 (1967) 147
Reitan, A., see Koltun B4 (1968) 629
Reitan, A., see Bakke B10 (1969) 43
Renard, F.M., Y.Renard, Hyperon-nucleon interactions and associate production on the deuteron B1 (1967) 389

Renard, F.M., Quark-model and radiative transitions B2 (1967) 537
Renard, F.M., On the electromagnetic properties of the kaon B7 (1968) 183
Renard, Y., see Renard B1 (1967) 389
Restignoli, M., see Davies B3 (1967) 616
Reucroft, S., see Donald B6 (1968) 174
Reucroft, S., see Frodesen B10 (1969) 307
Reynolds, B.G., J.R. Albright, R.H. Bradley, E.B. Brucker, W.C. Harrison, B.C. Harms, J.E. Lannutti, W.H. Sims, R.P. Wieckowicz, Analysis of the decay of ρ^- mesons produced in π^- p interactions at 2.26 GeV/c B6 (1968) 633
Rho, M., see Devanathan B2 (1967) 329
Riazuddin, A.Q. Sarker, Fayyazuddin, Current algebra, spectral function sum rules and the $f_-(0)/f_+(0)$ ratio in $K_{\ell 3}$ decay B6 (1968) 515
Rieseberg, H., see Depommier B4 (1968) 189
Rieseberg, H., see Depommier B4 (1968) 432
Rimpault, M., see Noirot B10 (1969) 368
Roberts, P.J., Three-dimensional deuteron wave function B1 (1967) 114
Roberts, R.G., see Alam B3 (1967) 192
Robinson, C.E., A. Dar, An absorption model consistent with elastic unitarity B6 (1968) 62
Roman, P., see Ishida B2 (1967) 307
Rook, J.R., Approximations in the calculation of capture rates in K^- mesic atoms B6 (1968) 543
Rook, J.R., K^- mesic X-rays from light nuclei B9 (1969) 441
Roos, M., Rho meson structure B2 (1967) 615
Roos, M., see Brene B6 (1968) 255
Roos, M., see Pišút B6 (1968) 325
Roos, M., see Brunila B9 (1969) 461
Roos, M., J. Pišút, Pion form factor and rho meson width B10 (1969) 563
Rosati, S., see Lovitch B1 (1967) 369
Rose, B., see Cox B4 (1968) 353
Ross, G.G., see Collins B10 (1969) 475
Ross, R.R., see Armenteros B8 (1968) 183
Ross, R.R., see Armenteros B8 (1968) 195
Ross, R.R., see Armenteros B8 (1968) 216
Ross, R.R., see Armenteros B8 (1968) 223
Ross, R.R., see Conforto B8 (1968) 265
Ross, R.R., see Armenteros B10 (1969) 432
Rossi, A.M., see Scheuer B8 (1968) 503
Rossi, A.M., see Barloutaud B9 (1969) 493
Rothe, H.J., see Bender B9 (1969) 141
Rothe, K.D., see Dahmen B7 (1968) 472
Rothe, K.D., see Dahmen B8 (1968) 150
Rothe, K.W., A.M. Wolsky, Are there heavy leptons? B10 (1969) 241
Rothleitner, J., A sum rule connecting the $\frac{1}{2}^+$ and $\frac{1}{2}^-$ baryon spectra B3 (1967) 89
Rothleitner, J., see Müller B5 (1968) 373
Rotsstein, A., An impact parameter cut-off model for nucleon isobar excitation in inelastic pp scattering B1 (1967) 655
Rougé, A., see Barloutaud B10 (1969) 683
Roy, N.C., see Bohm B4 (1968) 511
Roy, N.C., see Bohm B9 (1969) 1
Rühl, W., Representations of current algebras in one-particle spaces B3 (1967) 637
Rubbia, C., see Böhm B9 (1969) 605
Ruijgrok, Th.W., A new formulation of the theory of strong coupling B8 (1968) 591
Rumpf, K., see Bartsch B8 (1968) 9
Rutherglen, J.G., see Smith B1 (1967) 483

Rutherglen, J.G., see Brookes B2 (1967) 424
Rutherglen, J.G., see Smith B2 (1967) 408
Rykalin, V.I., see Vasilevsky B9 (1969) 673
Ryseck, E., see Boesebeck B4 (1968) 501
Ryseck, E., see Junkmann B8 (1968) 471
Ryseck, E., see Aderholz B8 (1968) 485
Ryseck, R., see Bartsch B7 (1968) 345
Ryu, N., see Sanada B4 (1968) 379
Saavedra, I., Equivalent representations of the Dirac equation B2 (1967) 690
Sacton, J., see Gajewski B1 (1967) 105
Sacton, J., see Davis B1 (1967) 434
Sacton, J., see Gajewski B2 (1967) 282
Sacton, J., see Pniewski B2 (1967) 317
Sacton, J., see Harmsen B4 (1968) 277
Sacton, J., see Bohm B4 (1968) 511
Sacton, J., see Coremans B4 (1968) 580
Sacton, J., see Bohm B9 (1969) 1
Saeed, A., see Sisterson B6 (1968) 205
Saetre, P., see Donald B6 (1968) 174
Saillard, Y., see Noirot B10 (1969) 368
Saitov, I., see Bassompierre B9 (1969) 295
Sakamoto, Y., see Nguyen-Trung B1 (1967) 139
Sakamoto, Y., Charge-exchange reaction of pions on light nuclei B10 (1969) 299
Salin, Ph., see Högaasen B2 (1967) 657
Salin, Ph., Inelastic meson-baryon scattering with Regge poles and SU_3 symmetry B3 (1967) 323
Salin, Ph., see Ader B3 (1967) 407
Salmeron, R.A., see Foster B6 (1968) 107
Salmeron, R.A., see Foster B8 (1968) 174
Samiullah, M., see Antoniou B4 (1968) 479
Samiullah, M., see Antoniou B5 (1968) 195
Samiullah, M., A. Rao, O(3,1) symmetry and KN charge exchange reactions B9 (1969) 514
Samiullah, M., see Raghavan B10 (1969) 48
Samiullah, M., see Raghavan B10 (1969) 53
Samiullah, M., A. Srinivas Rao, O(3,1) symmetry and associated production reactions B10 (1969) 390
Sanada, J., K. Kuriyama, Y. Takeuchi, Y. Nojiri, N. Ryu, H. Hasai, M. Ikeda, S. Kobayashi, K. Nagamine, D. C. Worth, T. Yamaya, Differential cross sections in proton-proton scattering at 52.34 MeV B4 (1968) 379
Sanchez-Gomez, J.L., P. Pascual, Photoproduction of pions on ^{3}He and ^{3}H B9 (1969) 153
Sandhas, W., see Alt B2 (1967) 167
Sandhas, W., see Grassberger B2 (1967) 181
Sannikov, S.S., Complex angular momentum and unstable levels of H-like atoms and positonium B1 (1967) 577
Sannikov, S.S., Four-valued representations of the three-dimensional rotation group in Euclidean space B1 (1967) 594
Sannikov, S.S., Group properties of one-dimensional operators of complex co-ordinate and momentum in quantum mechanics B1 (1967) 686
Sannikov, S.S., Complex spin and decay $K_2^0 \to 2\pi$ B2 (1967) 326
Santangelo, R., see Donald B6 (1968) 174
Sarker, A.Q., On the radiative decay of the A_2 meson B5 (1968) 560
Sarker, A.Q., A soft-pion emission approach to $\Gamma(\eta \to 2\gamma)/\Gamma(\pi^0 \to 2\gamma)$ with SU(3)-symmetry breaking B6 (1968) 155
Sarker, A.Q., see Riazuddin B6 (1968) 515

Sartori, S., see Donald	B6	(1968)	174
Saunders, L.M., Electromagnetic production of pions from nuclei	B7	(1968)	293
Saur, H., see Bizard	B5	(1968)	515
Sawada, T., see Green	B2	(1967)	267
Sawicki, J., The process of Σ-Λ conversion following the nuclear absorption of $\bar{K}$ with the production of a π^-	B1	(1967)	183
Scadron, M.D., see Jones	B4	(1968)	267
Scadron, M.D., see Jones	B10	(1969)	17
Scheck, F., see Gal	B2	(1967)	110
Scheck, F., see Gal	B3	(1967)	363
Schérer, M., see Landaud	B1	(1967)	7
Scheuer, J.C., D.Merrill, A.Verglas, S.A.De Wit, A.G.Tenner, A.Minguzzi-Ranzi, A.M.Rossi, U.Karshon, A.Shapira, E.Huffer, G.Lamidey, $Y_0^*(1520)$ production and decay in the reaction $K^-n \to Y_0^*(1520)\pi^-$ at 3 GeV/c	B8	(1968)	503
Scheuer, J.C., see Barloutaud	B9	(1969)	493
Scheuer, J.C., see Barloutaud	B10	(1969)	683
Schierholz, G., Relativistic two-particle scattering	B7	(1968)	432
Schierholz, G., Relativistic proton-proton scattering	B7	(1968)	483
Schiff, D., J.Tran Thanh Van, A covariant theory of pion-deuteron elastic scattering	B3	(1967)	671
Schiff, D., J.Tran Thanh Van, A covariant theory of the pionic disintegration of the deuteron	B5	(1968)	529
Schilcher, K., see Aly	B3	(1967)	401
Schilcher, K., Spectra of $K_{\ell 4}$ decays	B5	(1968)	85
Schildknecht, D., see Fraas	B6	(1968)	395
Schildknecht, D., see Krammer	B7	(1968)	583
Schiller, H., see Bartsch	B4	(1968)	326
Schiller, H., see Aderholz	B5	(1968)	606
Schiller, H., see Bartsch	B8	(1968)	9
Schilling, K., see Kramer	B5	(1968)	317
Schilling, K., Analysis of single π^- and π^+ photoproduction on deuterium at high energies and low momentum transfers	B7	(1968)	498
Schilling, K., F.Storim, Analysis of the photoproduction of ω mesons	B7	(1968)	559
Schink, L., see Cuevas	B1	(1967)	411
Schlaile, H.G., see Meng Ta-Chung	B7	(1968)	133
Schlamp, P., see Hilpert	B8	(1968)	535
Schmitz, N., see Brall	B1	(1967)	668
Schmitz, N., see Armenteros	B8	(1968)	183
Schmitz, N., see Armenteros	B8	(1968)	195
Schmitz, N., see Armenteros	B8	(1968)	216
Schmitz, N., see Armenteros	B8	(1968)	223
Schmitz, N., see Armenteros	B10	(1969)	432
Schnackers, H., see Hilpert	B8	(1968)	535
Schneider, H., see Tripp	B3	(1967)	10
Schneider, H., see Armenteros	B3	(1967)	592
Schneider, H., see Armenteros	B8	(1968)	233
Schorochoff, G., see Davis	B1	(1967)	434
Schorochoff, G., see Lovell	B5	(1968)	381
Schreiber, H.J., see Junkmann	B8	(1968)	471
Schreiber, H.J., The reaction $\gamma p \to \rho^0 p$ as two-pion exchange	B9	(1969)	164
Schreiber, J., see Brall	B1	(1967)	668
Schrempp, F., A Regge-pole model with absorptive corrections for the reactions $\pi^- + p \to \pi^0 + n$ and $\pi^+ + p \to \pi^0 + \Delta^{++}(1238)$	B6	(1968)	487
Schubelin, P., see Dubal	B3	(1967)	435
Schülke, L., see Dahmen	B7	(1968)	472

Schülke, L., see Dahmen B8 (1968) 150
Schulte, R., see Boesebeck B4 (1968) 501
Schulte, R., see Junkmann B8 (1968) 471
Schüttler, E., see Brall B1 (1967) 668
Schwank, L.J., see Nishijima B3 (1967) 553
Schwank, L.J., see Nishijima B3 (1967) 565
Schwimmer, A.Y., see Bishari B5 (1968) 641
Schwimmer, A.Y., see Bishari B6 (1968) 149
Seebeck, H., see Hilpert B8 (1968) 535
Sekulin, R.L., see Buchner B9 (1969) 286
Sekulin, R., see Bassompierre B9 (1969) 295
Selleri, F., see D'Auria B8 (1968) 645
Sene, M., see Kayas B5 (1968) 169
Sen Gupta, N.D., The wave equation for zero rest-mass particles B4 (1968) 147
Sens, J.C., see Daum B6 (1968) 273
Sens, J.C., see Daum B6 (1968) 617
Sens, J.C., see Daum B7 (1968) 19
Serebryakov, V.V., D.V.Shirkov, Model of s- and p-wave πN scattering B6 (1968) 607
Seyboth, P., see Brall B1 (1967) 668
Seyerlein, J., see Brall B1 (1967) 668
Shabalin, E.P., see Lobov B9 (1969) 75
Shabalin, E.P., Note on the shape of the weak interaction Lagrangian B10 (1969) 40
Shahbazian, B.A., Coherent production of π-mesons in collisions of 3.85 GeV/c $\bar{\pi}$-mesons with photoemulsion nuclei B1 (1967) 16
Shahbazian, B.A., see Beznogikh B6 (1968) 373
Shapira, A., see Scheuer B8 (1968) 503
Sharma, R.D., A.E.S.Green, Velocity dependent OBEP and nucleon-nucleon scattering phase shift in the Born approximation B3 (1967) 33
Sharp, R.T., see Chew B2 (1967) 697
Shastry, C.S., see Mukherjee B3 (1967) 1
Shastry, C.S., Asymptotic behaviour of the Coulomb-nuclear S-matrix along the imaginary λ-axis B7 (1968) 355
Shaw, G., Internal symmetries of the electromagnetic current: experimental tests B3 (1967) 338
Shaw, G., see Costa B6 (1968) 1
Shaw, G., see Morgan B10 (1969) 261
Shelepin, L.A., On a possible connection of the symmetries of elementary particles with the symmetry of the Clebsch-Gordan coefficients B2 (1967) 608
Shimodaira, H., see Ishida B2 (1967) 307
Shimodaira, H., see Watanabe B2 (1967) 360
Shirkov, D.V., see Serebryakov B6 (1968) 607
Shirokov, Yu.M., A connection between singularities of the matrix elements of non-relativistic quantum fields and the physical S-matrix B6 (1968) 159
Shirokov, Yu.M., V.E.Troitski, The connection of the deuteron form factor with the physical S-matrix B10 (1969) 118
Siaud, J., see D'Andlau B5 (1968) 693
Simpson, W.D., see Igo B3 (1967) 181
Sims, W.H., see Reynolds B6 (1968) 633
Singer, P., see Eliezer B4 (1968) 607
Singh, M.B., see Kohli B2 (1967) 164
Sire, S., see Donald B6 (1968) 174
Sirlin, A., see Brene B6 (1968) 255

Sisterson, L.K., K.Paler, D.B.Miller, A.Saeed, C.Fisher, P.J. Finney, W.W.M.Allison, D.H.Locke, L.Lyons, W.M.R.Blair, R.Erskine, J.D.Gordon, I.S.Hughes, R.M.Turnbull, W.Blum, D.C.Colley, M.Haque, F.MacDonald, Some aspects of Λ^0 production in multibody final states produced in 6 GeV/c interactions B6 (1968) 205
Sisterton, L.K., see Paler B10 (1969) 221
Skjeggestad, O., see Donald B6 (1968) 174
Skjeggestad, O., see Frodesen B10 (1969) 307
Skrzypczak, E., see Bohm B4 (1968) 511
Skrzypczak, E., see Bohm B9 (1969) 1
Slattery, P.F., see Berlinghieri B8 (1968) 333
Smadja, G., see Derem B3 (1967) 628
Smadja, G., see Kayas B5 (1968) 169
Smirnov, Yu.F., see Asherova B4 (1968) 399
Smith, C.H.L., see Antoniou B3 (1967) 277
Smith, I.L., J.Garvey, J.G.Rutherglen, G.R.Brookes, The quasi-deuteron photodisintegration process in lithium, carbon and calcium B1 (1967) 483
Smith, I.L., J.Garvey, J.G.Rutherglen, G.R.Brookes, Erratum B2 (1967) 408
Smith, I.L., see Brookes B2 (1967) 424
Smith, J.R., see Burgun B8 (1968) 447
Snellman, H., Radiative corrections to weak pion decays B5 (1968) 220
Sobczak, T., see Bohm B4 (1968) 511
Sobczak, T., see Bohm B9 (1969) 1
Söding, P., see Brall B1 (1967) 668
Soergel, V., see Depommier B4 (1968) 189
Soergel, V., see Depommier B4 (1968) 432
Sosnowski, R., see Hofmokl B4 (1968) 573
Sosnowski, R., see Junkmann B8 (1968) 471
Spencer, D., see Conforto B3 (1967) 469
Speth, R., see Bartsch B4 (1968) 326
Speth, R., see Aderholz B5 (1968) 606
Speth, R., see Bartsch B7 (1968) 345
Speth, R., see Bartsch B8 (1968) 9
Spitzer, H., see Cuevas B1 (1967) 411
Spitzer, H., see Brall B1 (1967) 668
Spitzer, H., see Hilpert B8 (1968) 535
Spitzer, R., Interaction of neutral K and electromagnetic fields - (I) Quantization of coupled fields B1 (1967) 613
Spitzer, R., Interaction of neutral K and electromagnetic fields - (II) $K_0 - \bar{K}_0$ transitions in external fields B2 (1967) 479
Squires, E.J., see Collins B10 (1969) 475
Srivastava, P.K., see Choudhury B2 (1967) 441
Srivastava, P.P., $K_{\ell 3}$ decay form factors and current algebra B7 (1968) 220
Stancu, F., see Iosifescu B1 (1967) 471
Stanley, D., see Gajewski B1 (1967) 105
Stanley, D., see Bohm B4 (1968) 511
Stanley, D., see Bohm B9 (1969) 1
Stearns, R.L., see Igo B3 (1967) 181
Stech, B., see Müller B3 (1967) 464
Stech, B., see Dillenburg B10 (1969) 27
Steffen, P., see Brall B1 (1967) 668
Steffen, P., see Hilpert B8 (1968) 535
Stehney, A.F., E.P.Steinberg, Cross section for ^{7}Be production from ^{12}C with protons of 3-12.5 GeV B5 (1968) 188
Steinberg, E.P., see Stehney B5 (1968) 188
Steinberg, R., see Junkmann B8 (1968) 471

Steinberg, R., see Aderholz	B8	(1968)	485
Stern, J., see Jersák	B7	(1968)	413
Sternberger, K., see Junkmann	B8	(1968)	471
Steuer, M., see Daum	B6	(1968)	273
Steuer, M., see Daum	B6	(1968)	617
Steuer, M., see Daum	B7	(1968)	19
Stief, N., see Junkmann	B8	(1968)	471
Stierlin, U., see Hyams	B7	(1968)	1
Stierlin, U., see Hyams	B9	(1969)	460
Stiewe, J., see Hilpert	B8	(1968)	535
Stodolsky, L., see Kramer	B5	(1968)	317
Storim, F., see Schilling	B7	(1968)	559
Storim, F., see Hilpert	B8	(1968)	535
Straumann, N., see Cook	B5	(1968)	140
Strauss, R., see Meng Ta-Chung	B4	(1968)	425
Strauss, R., see Meng Ta-Chung	B7	(1968)	133
Suk, M., see Lehar	B1	(1967)	199
Suslenko, V.C., V.I.Kochkin, Analysis of the peripheral model for the process $p+p \rightarrow p+n+\pi^+$ at 0.5-0.7 GeV	B5	(1968)	657
Suslenko, V.C., V.I.Kochkin, Erratum	B8	(1968)	232
Sutherland, D.G., Some remarks on higher mesons	B2	(1967)	157
Sutherland, D.G., Current algebra and some non-strong mesonic decays	B2	(1967)	433
Sutherland, D.G., see Bell	B4	(1968)	315
Sutter, R., see Igo	B3	(1967)	181
Swank, L.J., see Mitter	B8	(1968)	205
Swanson, W.P., see Brall	B1	(1967)	668
Szeptycka, M., see Hofmokl	B4	(1968)	573
Szeptycka, M., see Junkmann	B8	(1968)	471
Szymanski, Z., see Pniewski	B2	(1967)	317
Taha, M.O., Continuous-parameter sum rules	B10	(1969)	656
Takeuchi, Y., see Sanada	B4	(1968)	379
Tallini, B., see Burgun	B8	(1968)	447
Tallone-Lambardi, L., see D'Andlau	B5	(1968)	693
Tang, C.L., see Margolis	B10	(1969)	329
Taylor, J.C., Factorization of Regge and Toller poles	B3	(1967)	504
Taylor, J.C., Mass formula for Regge daughters	B9	(1969)	201
Taylor, J.C., see Orborne	B10	(1969)	213
Taylor, J.G., see Broido	B4	(1968)	374
Tchrakian, D.H., see Barut	B3	(1967)	21
Tejessy, W., see Brall	B1	(1967)	668
Ten Kate, A., Relativistic wave equations in a five-dimensional approach	B8	(1968)	73
Tenner, A.G., see Scheuer	B8	(1968)	503
Tesch, K., see Bathow	B2	(1967)	669
Teucher, M.W., see Cuevas	B1	(1967)	411
Teucher, M.W., see Brall	B1	(1967)	668
Tevikian, R.V., Quantum electrodynamics with magnetic monopole	B1	(1967)	79
Thill, G., see Buchner	B9	(1969)	286
Ticho, H., see Böhm	B9	(1969)	605
Tirozzi, B., see Buccella	B8	(1968)	521
Tittel, K., see Böhm	B9	(1969)	605
Tøfte, H., see Bartsch	B4	(1968)	326
Tøfte, H., see Boesebeck	B4	(1968)	501
Tøfte, H., see Donald	B6	(1968)	174
Tøfte, H., see Bartsch	B7	(1968)	345
Tøfte, H., see Bartsch	B8	(1968)	9

Tøfte, H., see Aderholz B8 (1968) 45
Tøfte, H., see Junkmann B8 (1968) 471
Tøfte, H., see Aderholz B8 (1968) 485
Tohsaki, A., see Il-Tong Cheon B6 (1968) 585
Tolar, J., see Bednář B5 (1968) 255
Tolhoek, H.A., see Van der Wal B3 (1967) 511
Tomas, M., see Conforto B3 (1967) 469
Törnqvist, N.A., Is isospin invariance violated in πN backward scattering? B6 (1968) 187
Törnqvist, N.A., A method for the determination of the spin and parity of a resonance through spin-rotation parameter measurements B9 (1969) 467
Tóth, K., Electric dipole operators and mixed representations in $U(3) \otimes U(3)$ B4 (1968) 450
Tovtin, E.V., see Lendyel B5 (1968) 346
Toyoda, T., see Ravndal B3 (1967) 312
Tran Ha Anh, see Kayas B5 (1968) 169
Tran Thanh Van, J., see Loubaton B2 (1967) 342
Tran Thanh Van, J., see Schiff B3 (1967) 671
Tran Thanh Van, J., see Schiff B5 (1968) 529
Tran Thanh Van, J., see Contogouris B5 (1968) 683
Trefil, J.S., see Kajantie B1 (1967) 648
Trefil, J.S., see Kajantie B2 (1967) 243
Trefil, J.S., see Formánek B3 (1967) 155
Trefil, J.S., see Formánek B4 (1968) 165
Treille, D., see Betourne B5 (1968) 355
Tripathy, K.C., see Barut B7 (1968) 125
Tripp, R.D., D.W.G. Leith, A. Minten, R. Armenteros, M. Ferro-Luzzi, R. Levi-Setti, H. Filthuth, V. Hepp, E. Kluge, H. Schneider, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte, Baryon resonances in SU(3) B3 (1967) 10
Tripp, R.D., see Armenteros B3 (1967) 592
Tripp, R.D., see Armenteros B8 (1968) 233
Trofimenkoff, N.N., see Nakagawa B5 (1968) 93
Troitski, V.E., see Shirokov B10 (1969) 118
Trouskova, N.F., see Beznogikh B6 (1968) 373
Tsanos, N., see Bartsch B7 (1968) 345
Tuan, S.F., see Pakvasa B8 (1968) 95
Turnbull, R.M., see L.K. Sisterson B6 (1968) 205
Tyapkin, A.A., see Vasilevsky B9 (1969) 673
Udo, F., see Daum B6 (1968) 273
Udo, F., see Daum B6 (1968) 617
Udo, F., see Daum B7 (1968) 19
Ueda, T., A.E.S. Green, Form factors, N-N OBEP, and L^2 interactions B10 (1969) 289
Vandermeulen, J., Regge trajectories for isospin-one mesons B5 (1968) 325
Van der Raay, H.B., see Dutton B9 (1969) 594
Van der Spuy, E., The spin-family solution of a fundamental equation B2 (1967) 21
Van der Spuy, E., Unitarity and the spin-family solution B4 (1968) 598
Van der Wal, S.G., H.A. Tolhoek, Regularization in weak interaction theory and the Feinberg-Pais peratization method B3 (1967) 511
Van Dijk, W., see Bhaduri B1 (1967) 269
Van Dijk, W., see Bhaduri B2 (1967) 316
Van Hove, L., see Kokkedee B1 (1967) 169
Van Hove, L., Longitudinal phase-space plots of multiparticle hadron collisions at high energy B9 (1969) 331
Van Nieuwenhuizen, P., Finiteness of radiative corrections in all orders to μ-decay B7 (1968) 160

Van Zyl, C.P., see Cox B4 (1968) 353
Vasilevsky, I.M., V.V.Vishnyakov, A.F.Dunaitsev, Yu.D. Prokoshkin, V.I.Rykalin, A.A.Tyapkin, Angular correlation of gamma-quanta produced by negative pions stopping in hydrogen B9 (1969) 673
Veltman, M., Perturbation theory of massive Yang-Mills fields B7 (1968) 637
Verbeure, F., see Debaisieux B5 (1968) 147
Verbeure, F., see Bassompierre B9 (1969) 295
Verglas, A., see Scheuer B8 (1968) 503
Verri, G., see Castagnoli B2 (1967) 369
Viano, G.A., see Bertero B1 (1967) 317
Vilain, P., see Gajewski B1 (1967) 105
Vilain, P., see Gajewski B2 (1967) 282
Vilain, P., see Harmsen B4 (1968) 277
Vilain, P., see Bohm B4 (1968) 511
Vilain, P., see Coremans B4 (1968) 580
Vilain, P., see Bohm B9 (1969) 1
Vilhjalmsson, see Brene B9 (1969) 543
Villemoes, P., see Foster B6 (1968) 107
Villemoes, P., see Foster B8 (1968) 174
Violini, G., see Davies B3 (1967) 616
Violini, G., see Martin B10 (1969) 481
Vishnyakov, V.V., see Vasilevsky B9 (1969) 673
Von Lindern, L., see Hyams B7 (1968) 1
Von Lindern, L., see Hyams B9 (1969) 460
Vrana, J., see Burgun B8 (1968) 447
Wacek, I., see Bartsch B4 (1968) 326
Wacek, I., see Aderholz B5 (1968) 567
Wacek, I., see Aderholz B5 (1968) 606
Wacek, I., see Aderholz B7 (1968) 111
Wagini, B., see Junkmann B8 (1968) 471
Wahl, H., see Bartsch B4 (1968) 326
Wahl, H., see Aderholz B5 (1968) 606
Wahl, H., see Bartsch B8 (1968) 9
Walker, W.D., see Erwin B9 (1969) 364
Walker, W.D., see Bishop B9 (1969) 403
Walter, M., see Aderholz B8 (1968) 45
Walter, M., see Aderholz B8 (1968) 485
Wataghin, V., Nucleon electromagnetic form factors and the ρ^0, ω and ϕ resonances B10 (1969) 107
Watanabe, H., H.Shimodaira, S.Kamefuchi, The Stueckelberg formalism for Rarita-Schwinger field with spin $\frac{3}{2}$ B2 (1967) 360
Watanabe, H., S.Kamefuchi, Lagrangian approach to infinite component field theory B8 (1968) 573
Weaver, D.L., see Berends B4 (1968) 1
Weaver, D.L., see Berends B4 (1968) 54
Weaver, D.L., see Berends B4 (1968) 103
Weber, H., see Boesebeck B4 (1968) 501
Weber, H., see Aderholz B5 (1968) 567
Weber, H., see Aderholz B7 (1968) 111
Weber, H., see Aderholz B8 (1968) 45
Weber, H., see Hilpert B8 (1968) 535
Weigl, J., see Hilpert B8 (1968) 535
Weilhammer, P., see Hyams B7 (1968) 1
Weilhammer, P., see Hyams B9 (1969) 460
Weinberg, A., see Erwin B9 (1969) 364
Weiner, R.M., Factorization quark model for large momentum transfer scattering (I) B6 (1968) 226

Weiner, R.M., Erratum B10 (1969) 191
Weis, A., P.K.Kabir, Electroproduction of intermediate bosons B4 (1968) 643
Wennström, T., Multipole analysis of pion photoproduction below the first resonance B5 (1968) 235
Werle, J., see Kozłowski B1 (1968) 362
Werle, J., see Kielanowski B4 (1968) 682
West, G.B., see Gibson B1 (1967) 349
Wick, G.C., see Lee B9 (1969) 209
Wick, G.C., see Lee B10 (1969) 1
Wickens, J.H., see Bohm B4 (1968) 511
Wickens, J.H., see Coremans B4 (1968) 580
Wickens, J.H., see Bohm B9 (1969) 1
Wieckowicz, R.P., see Reynolds B6 (1968) 633
Wieczorek, E., see Kaschluhn B8 (1968) 84
Wiegand, G., R.Blomer, An algebraic method for unitarizing exchange diagrams and determining scattering amplitudes B9 (1969) 106
Wilkinson, K., see Hilpert B8 (1968) 535
Williams, J.G., see Bowcock B3 (1967) 95
Williams, R.M., see Barnes B3 (1967) 424
Wilquet, G., see Gajewski B1 (1967) 105
Wilquet, G., see Gajewski B2 (1967) 282
Wilquet, G., see Harmsen B4 (1968) 277
Wilquet, G., see Bohm B4 (1968) 511
Wilquet, G., see Coremans B4 (1968) 580
Wilquet, G., see Bohm B9 (1969) 1
Wilson, J.D., see Hyams B7 (1968) 1
Wilson, J.D., see Hyams B9 (1969) 460
Windmolders, R., see Debaisieux B5 (1968) 147
Windmolders, R., see Bassompierre B9 (1969) 295
Winternitz, P., see Janout B4 (1968) 527
Winzeler, H., Pion creation and quark phenomenology B7 (1968) 625
Wittek, W., see Buchner B9 (1969) 286
Wohlrab, K.S., Symmetry breaking quasi-particle method for baryons and for quarks - (I) Bound state problem B1 (1967) 551
Wohlrab, K.S., Fluctuation-dissipation theorem and quasiparticle approximation B5 (1968) 340
Wójcik, W., see Hofmokl B4 (1968) 573
Wójcik, W., see Junkmann B8 (1968) 471
Wolf, G., see Brall B1 (1967) 668
Wolf, G., see Buchner B9 (1969) 286
Wolf, G., see Bassompierre *B9 (1969) 295*
Wolff, S., see Brall B1 (1967) 668
Wolsky, A.M., see Rothe B10 (1969) 241
Wong, N.N., Radiative corrections to $K^{\pm} \to \pi^{o} + \mu^{\pm} + \nu$ with finite neutrino mass B5 (1968) 47
Woolcock, W.S., see Perrin *B4 (1968) 671*
Worth, D.C., see Sanada B4 (1968) 379
Wróblewski, A., see Hofmokl B4 (1968) 573
Wróblewski, A., see Junkmann B8 (1968) 471
Wunder, H., see Meng Ta-Chung B4 (1968) 425
Wysotski, F., see Bohm *B4 (1968) 511*
Wysotzki, F., see Bohm B9 (1969) 1
Yamada, M., On the connection between formulations of generalized statistics in quantum mechanics and field theory B6 (1968) 596
Yamaya, T., see Sanada B4 (1968) 379
Yap, C.T., Mesonic exchange effects in β decays *B5 (1968) 369*
Yiou, T.P., see Kayas B5 (1968) 169

Yonnet, J., see Bizard B5 (1968) 515
Yoshimura, T., Effects of composite fields on current algebra and generalized Ward's identities B10 (1969) 675
Yu, D., see Grunbaum B7 (1968) 255
Yuta, H., see Berlinghieri B8 (1968) 333
Zakharov, V.I., see Kondratyuk B5 (1968) 463
Zakrzewski, J., see Gajewski B1 (1967) 105
Zakrzewski, J., see Harmsen B4 (1968) 277
Zakrzewski, W.J., Mixing of Regge poles and cuts in perturbation theory B5 (1968) 403
Zalewski, K., J.A. Danysz, A method of calculating charge branching ratios suggested by the statistical model B2 (1967) 249
Zalewski, K., see Kotański B4 (1968) 559
Zalewski, K., see Aderholz B5 (1968) 567
Zalewski, K., see Białas B6 (1968) 449
Zalewski, K., see Białas B6 (1968) 465
Zalewski, K., see Białas B6 (1968) 478
Zalewski, K., see Białas B6 (1968) 483
Zhizhin, E D., On the origin of the πK^* enhancement B4 (1968) 413
Zienau, S., see Osborn B1 (1967) 180
Zimerman, A.H., K_{20}-K_{10} mass difference in the pole dominance model B2 (1967) 234
Zimerman, A.H., see Ragusa B4 (1968) 462
Zoellner, W., see Kaschluhn B8 (1968) 84
Zoll, J., see Astier B10 (1969) 65
Zupančič, Č., see Bressani B9 (1969) 427

SUBJECT INDEX

1. Nuclear Structure

1.B. *Two- and three-body problems*

Velocity-dependent potentials and the binding energy of the triton, L. Lovitch, S. Rosati B1 (1967) 369
Spin correlation parameter A_{xx} and A_{yy} measurements in p-p scattering from 11 MeV to 26 MeV, P. Catillon, M. Chapellier, D. Garreta B2 (1967) 93
Reduction of the three-particle collision problem to multi-channel two-particle Lippmann-Schwinger equations, E.O. Alt, P. Grassberger, W. Sandhas B2 (1967) 167
Two-pion exchange contribution to the nucleon-nucleon potential, P.D. Kapadia B3 (1967) 291
Measurements of the differential cross section and polarization in proton-proton scattering at about 143 MeV, G.F. Cox, G.H. Eaton, C.P. Van Zyl, O.N. Jarvis, B. Rose B4 (1968) 353
On wave functions for three-body systems, G. Karl, E. Obryk B8 (1969) 609

1.C. *Many-particle systems*

Systematical treatment of the non-relativistic n-particle scattering problem, P. Grassberger, W. Sandhas B2 (1967) 181
The two-particle correlation function in a finite Fermi gas model, A. Bogan Jr., L.L. Foldy B4 (1968) 485

1.E. *Properties of nuclei*

1.E.5. *Nuclear radii; Matter distributions*

Evidence for a neutron excess in the surface of heavy nuclei from a K^- meson capture study, D.H. Davis, S.P. Lovell, M. Csejthey-Barth, J. Sacton, G. Schorochoff, M. O'Reilly B1 (1967) 434
The neutron distribution in the surface of heavy nuclei, E.H.S. Burhop B1 (1967) 438

2. Nuclear Reactions

2.A. *General properties*

2.A.1. *Cross sections, energy relations*

Cross section of ^{7}Be production from ^{12}C with protons of 3-12.5 GeV, A.F. Stehney, E.P. Steinberg B5 (1968) 188

2.B. *Angular distributions, correlations; polarization*

Measurements of the differential cross section and polarization in proton-proton scattering at about 143 MeV, G. F. Cox, G. H. Eaton, C. P. Van Zyl, O. N. Jarvis, B. Rose B4 (1968) 353
Differential cross sections in proton-proton scattering at 52.34 MeV, J. Sanada, K. Kuriyama, Y. Takeuchi, Y. Nojiri N. Ryu, H. Hasai, M. Ikeda, S. Kobayashi, K. Nagamine, D. C. Worth, T. Yamaya B4 (1968) 379
Asymmetry moments of angular distributions, P. Kielanowski, J. Werle B4 (1968) 682

2.E. *Optical model*

Electromagnetic production of pions from nuclei, L. M. Saunders B7 (1968) 293

2.I. *Photonuclear processes*

The quasi-deuteron photodisintegration process in lithium, carbon and calcium, I. L. Smith, J. Garvey, J. G. Rutherglen, G. R. Brookes B1 (1967) 483
Non-forward photoproduction of ρ^0 mesons from complex nuclei, J. Fleischer B7 (1968) 47
The total photonuclear cross section at high energies as determined from the neutron production by fast muons, O. C. Allkofer, R. D. Andresen B8 (1968) 402

3. Electromagnetic Radiation

3.C. *Extranuclear effects*

Measurements on 6.3 GeV electromagnetic cascades and cascade-produced neutrons, G. Bathow, E. Freytag, K. Tesch B2 (1967) 669

4. Beta Decay; Parity

4.A. *General theory*

Radiative corrections to β-decay and nucleon form factors, G. Källén B1 (1967) 225

6. Methods and Instruments

6.B. *Theoretical*

Simultaneous phase shift analysis of 210 MeV nucleon-nucleon scattering, Z. Janout, Yu. M. Kazarinov, F. Lehar, P. Winternitz B4 (1968) 527
Conditions on density matrix elements and their application in resonance production, J. Daboul B4 (1968) 180

7. Quantum Field Theory

7.A. *General theory*

Equivalent representations of the Dirac equation, I. Saavedra B2 (1967) 690
On the additivity of conserved charge operators, J.-P. Leroy B6 (1968) 390
The Hankel-transformed perturbation-theory functions, B. Andersson B10 (1969) 527

7.A.1. *Field equations and quantization*

Equivalence of the Lee and Zachariasen models, H. Osborn. S. Zienau B1 (1967) 180
Conditions $Z = 0$ in scalar field theory, M. A. Braun B1 (1967) 277
Interaction of neutral K and electromagnetic fields - (I) Quantization of coupled fields, R. Spitzer B1 (1967) 613
The spin-family solution of a fundamental equation, E. Van der Spuy B2 (1967) 21
Lagrangian formalism for massive Rarita-Schwinger fields with spin $\frac{5}{2}$, A. Kawakami B2 (1967) 32
Haag's theorem in scattering theory, W. Garczyński B2 (1967) 207
The Stueckelberg formalism for Rarita-Schwinger field with spin $\frac{3}{2}$, H. Watanabe, H. Shimodaira, S. Kamefuchi B2 (1967) 360
Interaction of neutral K and electromagnetic fields - (II) K_O-$\bar{K}_O$ transitions in external fields, R. Spitzer B2 (1967) 479
Consistency of current commutators, I. Goldberg, E. Marx B3 (1967) 25
The wave equation for zero rest-mass particles, N. D. Sen Gupta B4 (1968) 147
Generalization of Haag's theorem in scattering theory, W. Garczyński B4 (1968) 689
The description of composite particles by means of conditions $Z = 0$, M. A. Braun B5 (1968) 392
Equivalence of two formulations of massive spin-one field theory, T. Cukierda, J. Lukierski B5 (1968) 508
A unified treatment of photon and neutral vector meson. The free field case, A. Burnel, H. Caprasse B5 (1968) 593
Causality and conformal invariance, L. Castell B5 (1968) 601
Quasipotential type equation for the relativistic scattering amplitude, V. G. Kadyshevsky B6 (1968) 125
A connection between singularities of the matrix elements of non-relativistic quantum fields and the physical S-matrix, Yu. M. Shirokov B6 (1968) 159
Non-relativistic approximations of the Dirac Hamiltonian, E. De Vries, J. E. Jonker B6 (1968) 213
On the connection between formulations of generalized statistics in quantum mechanics and field theory, M. Yamada B6 (1968) 596
Covariant arbitrary-spin wave functions and helicity couplings, P. J. Caudrey, I. J. Ketley, R. C. King B6 (1968) 671
Field-current identity, universality and $K_{\ell 3}$ decay, S. Y. Lo B7 (1968) 68
Current-field identification and Schwinger terms, A. Burnel B7 (1968) 91
Analytic regularization and gauge invariance, P. Breitenlohner, H. Mitter B7 (1968) 443
Quantum mechanics as a broken symmetry, H. A. Kastrup B7 (1968) 574
Perturbation theory of massive Yang-Mills fields, M. Veltman B7 (1968) 637

Singular equal-time behaviour of current commutators in perturbation theory, F. Kaschluhn, E. Wieczorek, W. Zoellner B8 (1968) 84
New spectral functions sum rules in a quantum field-theory model, A. Burnel B8 (1968) 511
Lagrangian approach to infinite component field theory, H. Watanabe, S. Kamefuchi B8 (1968) 573
A new formulation of the theory of strong coupling, Th. W. Ruijgrok B8 (1968) 591
On wave functions for three-body systems, G. Karl, E. Obryk B8 (1968) 609
On generalized field quantization procedures, B. Geyer B9 (1969) 67
Conservation of the number of fermions, Y. Ohnuki, S. Kamefuchi B9 (1969) 537
Renormalization of the σ-model, B. W. Lee B9 (1969) 649
Restrictions on Schwinger terms due to Lorentz covariance. V. Gupta, G. Rajasekaran B10 (1969) 11
Superconvergent dispersion relations at variable masses, G. Ghika, E. E. Radescu B10 (1969) 247
Covariant generalization of the spin operator as a conclusion from the Dirac equation, W. Hanus B10 (1969) 339
The mass and width of the $N_{\frac{3}{2}}^{*}$ resonance from quantum field theory without cut-off, L. B. Rédei B10 (1969) 419
The Lee model with a symmetry and its renormalizability, Y. Ataka B10 (1969) 612
Effects of composite fields on current algebra and generalized Ward's identities, T. Yoshimura B10 (1969) 675

7.A.2. *Group properties, invariance and symmetry principles*

The eight dimensional orthogonal group O(8) and internal symmetry, W. M. Fairbairn B1 (1967) 127
Large-angle scattering at very high energies and unitary symmetries, H. A. Kastrup B1 (1967) 309
Non-dynamical integral method for parity determination, M. Kozłowski, J. Werle B1 (1967) 362
SU_3 Wigner coefficients in angular momentum space, M. Iosifescu, F. Stancu B1 (1967) 471
Five-dimensional aspect of free particle motion, J. A. De Vos, J. Hilgevoord B1 (1967) 494
Application of Kramer's symbolic method to SU(3), P. Jasselette B1 (1967) 521
The reduction of direct products in SU(3), P. Jasselette B1 (1967) 529
Symmetry breaking quasi-particle method for baryons and for quarks - (I) Bound state problem, K. S. Wohlrab B1 (1967) 551
Four-valued representations of the three-dimensional rotation group in Euclidean space, S. S. Sannikov B1 (1967) 594
Symmetry without symmetry in the quark model, H. J. Lipkin B1 (1967) 597
Group properties of one-dimensional operators of complex co-ordinate and momentum in quantum mechanics, S. S. Sannikov B1 (1967) 686
On a graphical method for Clebsch-Gordan coefficients, isoscalar factors and rotation matrices for SU_3, E. El-Baz, B. Castel, J.-N. Massot, J. Lafoucrière B2 (1967) 51
Electromagnetic mass splittings of mesons and baryons in the quark model, A. Gal, F. Scheck B2 (1967) 110

Charge- and strangeness-exchange reactions in the quark model, K. Kajantie, J. S. Trefil B2 (1967) 243
Dynamical algebra and potentials, J. Lánik B2 (1967) 263
A graphical method for the crossing matrix in the octet model, B. Castel, E. El-Baz, J. Lafoucrière B2 (1967) 296
Electromagnetic properties of mesons in the quark model, S. Ishida, K. Konno, P. Roman, H. Shimodaira B2 (1967) 307
Current algebra and some non-strong mesonic decays, D. G. Sutherland B2 (1967) 433
Meson mixing and the charge asymmetry of the N-N interaction, B. W. Downs, Y. Nogami B2 (1967) 459
Covariance of the retarded product of axial-vector currents and the form of their equal-time commutator, K. Dietz, J. Kupsch B2 (1967) 581
Meson-baryon scattering in a quark model, A. Deloff B2 (1967) 597
On a possible connection of the symmetries of elementary particles with the symmetry of the Clebsch-Gordan coefficients, L. A. Shelepin B2 (1967) 608
SU(3) isoscalar factors, C.-K. Chew, R. T. Sharp B2 (1967) 697
Baryon resonances in SU(3), R. D. Tripp, D. W. G. Leith, A. Minten, R. Armenteros, M. Ferro-Luzzi, R. Levi-Setti, H. Filthuth, V. Hepp, E. Kluge, H. Schneider, R. Barloutaud, P. Granet, J. Meyer, J. P. Porte B3 (1967) 10
A sum rule connecting the $\frac{1}{2}^+$ and $\frac{1}{2}^-$ baryon spectra, J. Rothleitner B3 (1967) 89
On the effect of the U(3)-invariant interactions in a bound system, T. Maekawa B3 (1967) 113
On the representation of current algebraic relations in the space of relativistic two-particle states, H. Goldberg B3 (1967) 173
Note on Poincaré group extensions and internal symmetry transformations, G. C. Hegerfeldt, K. Kraus B3 (1967) 189
The D_{13} coupling constant, M. A. Alam, R. G. Roberts B3 (1967) 192
A new approach to the SU(2) ⊗ SU(2) symmetry of the Kepler motion, F. Ravndal, T. Toyoda B3 (1967) 312
Inelastic meson-baryon scattering with Regge poles and SU_3 symmetry, Ph. Salin B3 (1967) 323
Internal symmetries of the electromagnetic current: experimental tests, G. Shaw B3 (1967) 338
The γNN^* coupling from current algebra, K. J. Barnes, R. M. Williams B3 (1967) 424
Octet dominance in weak, electromagnetic and strong interactions, V. F. Müller, B. Stech B3 (1967) 465
SU(3) theory of the three-body leptonic decays of pseudoscalar mesons, P. Du T. Van der Merwe B3 (1967) 601
The ρ+R Regge-pole model in the reaction $K^- + p \to \bar{K}^0 + n$ A. Derem, G. Smadja B3 (1967) 628
Representations of current-density algebras in one-particle spaces. Representation theory, W. Rühl B3 (1967) 637
Photoproduction and electroproduction of pions - (II) Photopion production below 500 MeV, F. A. Berends, A. Donnachie, D. L. Weaver B4 (1968) 54
Current algebra and the σ-meson, M. A. Ahmed B4 (1968) 233
Strong decays of baryonic resonances $\frac{3}{2}^-$ and SU(3) symmetry, E. Cremmer B4 (1968) 257
Current algebra and $\eta \to 3\pi$, J. S. Bell, D. G. Sutherland B4 (1968) 314
The physical aspects of the conformal group $SO_0(4,2)$, L. Castell B4 (1968) 343

Bootstrapped symmetries and octet generation in field theory, M. M. Broido, J. G. Taylor B4 (1968) 374
Asymptotic chiral symmetry for arbitrary spin, P. A. Cook B4 (1968) 392
Projection operators and Clebsch-Gordan coefficients for the group SU_3, R. M. Asherova, Yu. F. Smirnov B4 (1968) 399
Electric dipole operators and mixed representations in $U(3) \otimes U(3)$, K. Tóth B4 (1968) 450
Pion form factor and mass spectrum of bosons, A. O. Barut B4 (1968) 455
The mass relation $m_A = \sqrt{2} m_\rho$ from current algebra and the Kroll-Ruderman theorem, S. Ragusa, A. H. Zimerman B4 (1968) 462
O(3, 1) symmetry and the forward Compton scattering of virtual photons at high energies, N. G. Antoniou, C. Palev, M. Samiullah B4 (1968) 379
Multiple-scattering corrections to the Johnson-Treiman relation in the quark model, N. W. Dean B4 (1968) 534
Excitation of negative parity nucleon isobars in the quark model, A. B. Clegg B5 (1968) 59
SU(3) symmetry and Regge poles at high energy, A. Derem B5 (1968) 70
S-wave non-leptonic hyperon decays and models of baryons, M. Nakagawa, N. N. Trofimenkoff B5 (1968) 93
A dynamical symmetry scheme with triplets of integral charge, K. Raman B5 (1968) 125
O(3, 1) symmetry and the high-energy reaction $\pi N \to \eta N^*(1236)$, N. G. Antoniou, S. R. Komy, C. D. Palev, M. Samiullah B5 (1968) 195
The dynamical group of the SU(3)-symmetric strong coupling theory, M. Bednář, J. Tolar B5 (1968) 255
S-wave quarks and baryon resonances, A. N. Mitra, D. L. Katyal B5 (1968) 308
Mixing of Regge poles and cuts in perturbation theory, W. J. Zakrzewski B5 (1968) 403
A new Lie group for the scalar SU(3) symmetric strong coupling theory, O. Melsheimer B5 (1968) 479
Partially conserved dilatation current, G. Mack B5 (1968) 499
Broken symmetry and non-invariance groups, J. Lánik B5 (1968) 523
Causality and conformal invariance, L. Castell B5 (1968) 601
Baryon electromagnetic transitions in the three-triplet model, G. Karl, E. Obryk B6 (1968) 102
Is isospin invariance violated in πN backward scattering?, N. A. Törnqvist B6 (1968) 187
Factorization quark model for large momentum transfer scattering (I), R. M. Weiner B6 (1968) 226
Systematics of the relations following from the quark model, A. Białas, K. Zalewski
(I) Relations between differential cross sections B6 (1968) 449
(II) Constraints on decay distributions of resonances B6 (1968) 465
(III) Comparison of decay distributions of resonances produced in different reactions B6 (1968) 478
(IV) Photoproduction, A. Białas, A. Guła, B. Muryn, K. Zalewski B6 (1968) 483
Current-density, current-density commutation relations and the VVP couplings, C. S. Lai, P. D. De Souza B6 (1968) 649
On a possible approach to the variable-mass problem, V. I. Fushchich, I. Yu. Krivsky B7 (1968) 79
Processes requiring double scattering in the quark model, N. W. Dean B7 (1968) 311

Simple branching ratios and sum rules in peripheral reactions, H. J. Lipkin B7 (1968) 321
Mass relations of baryons in a quark model, K. R. James B7 (1968) 336
On the relativistic kinematics of processes involving massless particles, H. Goldberg B7 (1968) 359
Relativistic non-invariance symmetries generated by local currents, J. Jersák, J. Stern B7 (1968) 413
A broken symmetry model for baryon leptonic decays based on asymptotic symmetries, P. P. Divakaran B7 (1968) 459
Gauge properties of the Galilei space, H. A. Kastrup B7 (1968) 545
Relativistic wave functions in a five-dimensional approach, A. Ten Kate B8 (1968) 73
The SU(3) structure of negative-parity baryon states, S. Pakvasa, S. F. Tuan B8 (1968) 95
Chiral dynamics, SU(3) × SU(3) field algebra and symmetry breaking, P. K. Mitter, L. J. Schwank B8 (1968) 205
Potential model of SU(3)-symmetry breaking for mesons, A. B. Khalil B8 (1968) 460
Lower hadron states classification and SU(3) ⊗ SU(3) chiral algebra approximate saturation, F. Buccella, M. De Maria, B. Tirozzi B8 (1968) 521
Current algebra, infinite momentum and sum rules, S. Matsuda, S. Oneda B9 (1969) 55
Group analysis of scattering amplitudes; the group SU(1, 1), A. P. Balachandran, J. Nuyts B9 (1969) 81
Some qualitative aspects of O(3, 1) partial-wave analysis of off-forward N-N scattering, C. O. Nwachuku B9 (1969) 501
O(3, 1) symmetry and KN charge exchange reactions, M. Samiullah, A. Srinivas Rao B9 (1969) 514
SU(3) symmetry breaking in semileptonic decays, L. K. Pandit, G. Rajasekaran B9 (1969) 531
O(3, 1) symmetry and the high-energy reaction $K^+p \to K^*N^*$, S. Raghavan, M. Samiullah B10 (1969) 48
O(3, 1) symmetry and the high-energy reaction $K^+p \to K^{*+}(890)p$, S. Raghavan, M. Samiullah B10 (1969) 53
General structure of multiplets for massless particles, R. Ferrari B10 (1969) 375
O(3, 1) symmetry and associated production reactions, M. Samiullah, A. Srinivas Rao B10 (1969) 390
Decay rates of meson resonances in a quark model, L. Micu B10 (1969) 521

7.B. *The S-matrix*

ρ-meson couplings and current algebra, M. A. Ahmed B4 (1968) 249

7.B.1. *Structure of S-matrix. Regge poles, bootstrap*

Wigwam singularities, J. Cunningham, M. Rafique B1 (1967) 21
Some geometrical inter-relationships of Landau curves, J. Cunningham, M. Rafique B1 (1967) 35
The mass spectrum of the baryon excited states in the static model, M. Noga B1 (1967) 85
Coulomb effects on the singularity at $k = 0$ of the partial wave amplitudes, M. Bertero, G. A. Viano B1 (1967) 317
On zero mass pions, J. Hamilton B1 (1967) 449
Kinematic corrections to Regge-pole analysis of $\pi^- + p \to \eta^0 + n$, R. J. N. Phillips B1 (1967) 572

The momentum space analytic function corresponding to one of the terms in the Bergman-Weil representation formula for the vertex function, B. Andersson B1 (1967) 581
On some properties of the quasipotential for interacting spinor fields, G. Desimirov, M. Mateev B2 (1967) 218
K_{20}-K_{10} mass difference in the pole dominance model, A. H. Zimerman B2 (1967) 234
A cusped vertex Landau curve, J. Cunningham, M. Rafique B2 (1967) 237
Is there a pion conspiracy?, R. J. N. Phillips B2 (1967) 394
General classification of conspiracy relations, H. Högaasen, Ph. Salin B2 (1967) 657
Analytical studies in charged-particle partial-wave amplitude, S. Mukherjee, C. S. Shastry B3 (1967) 1
On the superconvergence of amplitudes involving massless particles, A. O. Barut, D. H. Tchrakian B3 (1967) 21
Analyse de l'échange de charge K^-p à haute énergie à l'aide de deux poles de Regge ρ et R, A. Derem B3 (1967) 106
The D_{13} coupling constant, M. A. Alam, R. G. Roberts B3 (1967) 192
Bound on the double spectral function for a class of Yukawian potentials, M. Bertero, H. J. Kreuzer B3 (1967) 195
Two-pion exchange contribution to the nucleon-nucleon potential, P. D. Kapadia B3 (1967) 291
Inelastic meson-baryon scattering with Regge poles and SU_3 symmetry, Ph. Salin B3 (1967) 323
Non-Regge terms in single current amplitudes, J. C. Polkinghorne B3 (1967) 395
Regge trajectories for even-power potentials, H. H. Aly, H. J. W. Müller, K. Schilcher B3 (1967) 401
A Regge pole model fit of pion and K meson photoproduction, J. P. Ader, M. Capdeville, Ph. Salin B3 (1967) 407
Factorization of Regge and Toller poles, J. C. Taylor B3 (1967) 504
Self-damping mechanism for approximate N/D equations, H. Cornille B3 (1967) 655
Reggeization of invariant amplitudes, H. F. Jones, M. D. Scadron B4 (1968) 267
Regge-pole model for isospin-$\frac{3}{2}$ SPDF pion-nucleon partial-wave amplitudes, Meng Ta-Chung, R. Strauss, H. Wunder B4 (1968) 425
O(3, 1) symmetry and the forward Compton scattering of virtual photons at high energies, N. G. Antoniou, C. Palev, M. Samiullah B4 (1968) 479
Unitarity and the spin-family solution, E. Van der Spuy B4 (1968) 598
Excitation of negative parity nucleon isobars in the quark model, A. B. Clegg B5 (1968) 59
SU(3) symmetry and Regge poles at high energy, A. Derem B5 (1968) 70
Helicity formalism and the superconvergent sum-rules for the process $N^* + \pi \rightarrow N + \rho$, M. A. W. Miah B5 (1968) 109
Daughter trajectories in the Wick-Cutkosky model of the Bethe-Salpeter equation, H. J. W. Müller B5 (1968) 277
Regge trajectories for isospin-one mesons, J. Vandermeulen B5 (1968) 325
Finite energy sum rules in nucleon Compton scattering, J. R. Fox B5 (1968) 331
The description of composite particles by means of conditions $Z = 0$, M. A. Braun B5 (1968) 392
Asymptotic projections of scattering models, V. Barger, M. Olsson, D. D. Reeder B5 (1968) 441

$K^*(890)$ production in 10 GeV/c K^-p interactions and comparison with absorption and Regge pole models, M. Aderholz, M. Deutschmann, E. Keppel, G. Kraus, H. Weber, U. Gensch, C. Grote, S. Nowak, D. Pose, M. Bardadin-Otwinowska, T. A. Byer, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, M. Markytan, D. R. O. Morrison, K. Zalewski, D. P. Dallman, S. J. Goldsack, N. C. Mukherjee, A. Frohlich, W. Kittel, G. Otter, P. Porth, I. Wacek B5 (1968) 567
Proof of a conjecture on the behaviour of the scattering amplitude for large imaginary angular momenta, M. Bertero, H. J. Kreuzer B5 (1968) 619
High-energy bounds for helicity amplitudes of arbitrary spins and masses, H. Cornille, G. Philippe B5 (1968) 627
Couplings of particles by means of superconvergence, M. Bishari, A. Y. Schwimmer B5 (1968) 641
Are there three vacuum trajectories?, R. C. Johnson B5 (1968) 673
Backward pion-nucleon scattering and fermion-exchange mechanisms, A. P. Contogouris, J. Tran Thanh Van, M. Le Bellac B5 (1968) 683
Soft pions and finite-energy sum rules: Application to scattering of pions by $\frac{1}{2}^+$ baryons, G. Costa, G. Shaw B6 (1968) 1
An absorption model consistent with elastic unitarity, C. E. Robinson, A. Dar B6 (1968) 62
Connection between superconvergence and algebra in Goebel's static model, M. Bishari, A. Y. Schwimmer B6 (1968) 149
Impact parametrisation and daughter trajectories, N. P. Chang, K. T. Mahanthappa B6 (1968) 200
The decomposition of Bethe-Salpeter amplitudes into standard covariants and invariant amplitudes, W. Alpers B6 (1968) 353
Remarks on pion conspiracy, C. D. Froggatt B6 (1968) 421
Sum rules for the mixing angles of the baryons in $SU(3) \otimes SU(3)$ chiral algebra at infinite momentum, F. Buccella, M. De Maria, M. Lusignoli B6 (1968) 430
The multi-Reggeon model and Pomeranchuk exchange, J. C. Polkinghorne B6 (1968) 441
Total cross sections and the Regge pole model, Y. Hara B6 (1968) 510
Current commutators and mass extrapolations, theory and applications, A. P. Balachandran, M. G. Gundzik, F. Nicodemi B6 (1968) 557
Bootstrap models for Regge trajectories, K. Dietz, J. Honerkamp, J. Kupsch B6 (1968) 639
Regge poles and nuclei, G. Faucher B7 (1968) 16
Crossing relations of double Breit system helicity amplitudes, J. Bjørneboe, Z. Koba B7 (1968) 53
On the single ρ Regge-pole exchange model and the πN charge-exchange process, Meng Ta-Chung, H. G. Schlaile, R. Strauss B7 (1968) 133
On the high-energy behaviour of the differential cross section of certain inelastic processes involving leptons, V. Baluni B7 (1968) 167
Bootstrap theory of static pion-baryon scattering, connections with strong-coupling theory, C. Cronström, M. Noga B7 (1968) 201
Vector dominance sum rules for meson-baryon scattering, R. H. Graham, M. Huq B7 (1968) 250
Some consequences of asymptotic symmetry and pole dominance, K. Fabricius B7 (1968) 331
Asymptotic behaviour of the Coulomb-nuclear S-matrix along the imaginary λ-axis, C. S. Shastry B7 (1968) 355

A proof of the existence of functions that satisfy exactly both crossing and unitarity (I). Neutral pion-pion scattering. No subtractions, D. Atkinson B7 (1968) 375
Relativistic two-particle scattering, G. Schierholz B7 (1968) 432
Factorisation, kinematic factors of the Regge residue function and conspiracy, P. H. Frampton B7 (1968) 507
Regge-pole description of the photoproduction of vector mesons, J. Daboul B7 (1968) 651
N-N* interactions with Faddeev equations, W. A. Gale, I. M. Duck B8 (1968) 109
Subtractions and off-shell continuation of weak form factors, H. D. Dahmen, K. D. Rothe, L. Schülke B8 (1968) 150
Behaviour of the diffraction peak for particles with arbitrary spins, Nguyen thi Hong B8 (1968) 303
Regge-pole model for the invariant functions of the nucleon-nucleon and meson-nucleon scattering, K. H. Mütter B8 (1968) 311
On the generalization of canonical commutation relations with respect to the orthogonal group in even dimensions, B. Geyer B8 (1968) 326
Double and multiple Breit-system helicity amplitudes, Z. Koba B8 (1968) 351
A proof of the existence of functions that satisfy exactly both crossing and unitarity (II). Charged pions. No subtractions, D. Atkinson B8 (1968) 377
Structure of overlap function and peripherality of production processes, Z. Koba, M. Namiki B8 (1968) 413
Regge-pole absorption model for πN charge exchange and cross-over, C. Michael B8 (1968) 431
The neutron-proton mass difference and the A2 Regge pole, Y. Hara B8 (1968) 441
The top position of the loops in Regge partial waves, C. B. Chiu, A. Kotański B8 (1968) 553
On the npd vertex functions, R. D'Auria, E. Predazzi, F. Selleri B8 (1968) 645
The Mercedes graph as a superposition of simpler graphs, B. Andersson B8 (1968) 654
Regge-pole model for vector meson production (I). The reaction πN-ρN, G. V. Dass, C. D. Froggatt B8 (1968) 661
An algebraic method for unitarizing exchange diagrams and determining scattering amplitudes, G. Wiegand, R. Blomer B9 (1969) 106
Superconvergent bootstrap, exchange degeneracy and fixed singularities in the complex J-plane, S. Matsuda B9 (1969) 113
Mass formula for Regge daughters, J. C. Taylor B9 (1969) 201
Negative metric and the unitarity of the S-matrix, T. D. Lee, G. C. Wick B9 (1969) 209
A double Regge model of production processes, J. M. Kosterlitz B9 (1969) 273
Regge poles and polarization in K^-p elastic scattering, G. Plaut B9 (1969) 306
Determination of Regge-pole residue functions from fixed-t dispersion relations, J. Baacke B9 (1969) 324
Exchange degeneracy, flat total cross sections and the absence of exotic resonances, H. J. Lipkin B9 (1969) 349
Test of a relativistic many-channel resonance formula, T. Brunila, M. Roos, J. Pišút B9 (1969) 461

A method for the determination of the spin and parity of a resonance through spin-rotation parameter measurements, N. A. Törnqvist B9 (1969) 467
Regge-pole models for kaon-nucleon scattering, G. V. Dass, C. Michael, R. J. N. Phillips B9 (1969) 549
n-Particle phase space in terms of invariant momentum transfers, E. Byckling, K. Kajantie B9 (1969) 568
Unitarity in the $N\theta\theta$ sector of a soluble model with indefinite metric, T. D. Lee, G. C. Wick B10 (1969) 1
Charge commutator for any momentum, D. Dillenburg, G. Jacob, Th. A. J. Maris, B. Stech B10 (1969) 27
Veneziano's model and current algebra sum rules in $\pi\pi$ scattering, P. Brooker B10 (1969) 59
The connection of the deuteron form factor with the physical S-matrix, Yu. M. Shirokov, V. E. Troitski B10 (1969) 118
Regge-pole model for vector meson production (II). The reaction $KN \rightarrow K^*N$, G. V. Dass, C. D. Froggatt B10 (1969) 151
Reggeization of kinematically free amplitudes, P. M. Osborne, J. C. Taylor B10 (1969) 213
Spectral function sum rules for tensor currents and the ρ-meson electromagnetic mass difference, P. A. Cook, G. C. Joshi B10 (1969) 253
Crossing symmetric, Regge-behaved amplitude for a general trajectory, J. Boguta B10 (1969) 319
Contribution of N and Δ exchanged Regge trajectories to high-energy backward meson-baryon scattering, Y. Noirot, M. Rimpault, Y. Saillard B10 (1969) 368
High-energy behaviour of the Bardakçi-Ruegg amplitude, A. Białas, S. Pokorski B10 (1969) 399
Modified Lorentz-pole analysis of some scattering and reaction amplitudes, D. Bedford B10 (1969) 410
Resonances and Regge poles in pion-nucleon scattering, A. Donnachie, R. G. Kirsopp B10 (1969) 433
Longitudinal momentum plots in three-body final states with strangeness minus one, W. Ochs B10 (1969) 453
Duality and the identification of resonances, P. D. B. Collins, G. G. Ross, E. J. Squires B10 (1969) 475
Regge poles and large-angle scattering, N. W. Dean B10 (1969) 496
Generalized Veneziano model with isospin, J. E. Paton, Chan Hong-Mo B10 (1969) 516
The Hankel-transformed perturbation-theory functions, B. Andersson B10 (1969) 527
Deux trajectoires de Regge dans la réaction $\pi^- p \rightarrow \pi^0 n$, A. Derem B10 (1969) 619
Reaction amplitude for n mesons, a generalization of the Veneziano-Bardakçi-Ruegg-Virasoro model, Z. Koba, H. B. Nielsen B10 (1969) 633
Continuous-parameter sum rules, M. O. Taha B10 (1969) 656

7.B.2. *Dispersion relations*

Cross-section sum rules in the static model, M. Noga B2 (1967) 532
On the forward dispersion relation of the amplitude $\pi^+\pi^0 \rightarrow \pi^+\pi^0$, N. G. Antoniou B2 (1967) 648
The comparison of $K^{\pm}p$ and $K^{\pm}n$ dispersion relations with experiment, A. D. Martin, F. Poole B4 (1968) 467
Calculations using the dispersion relations for forward $K^{\pm}p$ scattering, R. Perrin, W. S. Woolcock B4 (1968) 671

Meson-nucleon coupling constants from nucleon-nucleon forward dispersion relations, D. V. Bugg B5 (1968) 29
Dispersion sum rules for non-decreasing amplitudes, L. Jenkovszky B5 (1968) 119
On the low-energy behaviour of S-waves in $\pi\pi$ scattering, J. Pišút B8 (1968) 159
Sidewise dispersion relations and $J = \frac{1}{2}$ baryon resonances, A. Love, R. G. Moorhouse B9 (1969) 577
Adler's self-consistency condition for nuclei, G. Fäldt, M. P. Locher B10 (1969) 283
Consistency tests of the low-energy K^-p parametrizations, A. D. Martin, N. M. Queen, G. Violini B10 (1969) 481

7.C. *Unified theory*

The spin-family solution of a fundamental equation, E. Van der Spuy B2 (1967) 21

8. Fundamental Interactions

8.A. *Strong interactions*

8.A.1. *General properties*

Isomeric states in $_{\Lambda}^{7}$He, R. H. Dalitz, A. Gal B1 (1967) 1
Symmetry breaking quasi-particle method for baryons and for quarks - (I) Bound state problem, K. S. Wohlrab B1 (1967) 551
Some remarks on higher mesons, D. G. Sutherland B2 (1967) 157
Charge- and strangeness-exchange reactions in the quark model, K. Kajantie, J. S. Trefil B2 (1967) 243
Is there a pion conspiracy?, R. J. N. Phillips B2 (1967) 394
A sum rule connecting the $\frac{1}{2}^+$ and $\frac{1}{2}^-$ baryon spectra, J. Rothleitner B3 (1967) 89
Fluctuation-dissipation theorem and quasiparticle-approximation, K.-S. Wohlrab B5 (1968) 340
Loops in partial wave expansion of asymptotic amplitudes, C. B. Chiu, A. Kotański B7 (1968) 615
Behaviour of the diffraction peak for particles with arbitrary spins, Nguyen thi Hong B8 (1968) 303

8.A.2. *π-mesons*

The estimates of higher partial waves in pion-pion scattering, K. Pišút, P. Bóna B1 (1967) 65
Boson mass squared formula and spurions, P. C. De Celles B1 (1967) 216
On the forward dispersion relation of the amplitude $\pi^+\pi^0 \to \pi^+\pi^0$, N. G. Antoniou B2 (1967) 648
Low-energy π-π scattering, N. G. Antoniou, C. H. L. Smith B3 (1967) 277
Etude de la diffusion élastique $\pi^-\pi^0$ par la méthode d'extrapolation de Chew et Low à partir de la réaction $\pi^-p \to \pi^-\pi^0p$ à 2.77 GeV/c, J. P. Baton, G. Laurens, J. Reignier B3 (1967) 349
Analysis of K_{e4} decay, evidence for a vector current and its consequences, F. A. Berends, A. Donnachie, G. C. Oades B3 (1967) 569

Radiative pion capture and axial currents in nuclei, M. Ericson, A. Figureau B3 (1967) 609
Application du développement en paramètre d'impact à la diffusion élastique π-p à haute énergie, M. Musette B4 (1968) 131
Final state interaction effects in π^- mesonic decays of light hypernuclei, D. M. Harmsen, R. Levi Setti, J. Zakrzewski, W. Gajewski, J. Sacton, P. Vilain, G. Wilquet, D. H. Davis, E. R. Fletcher, J. E. Allen, A. P. Conway B4 (1968) 277
A Regge-pole model with absorptive corrections for the reactions $\pi^- + p \to \pi^0 + n$ and $\pi^+ + p \to \pi^0 + \Delta^{++}(1238)$, F. Schrempp B6 (1968) 487
Some aspects of π^--N interactions at 17.2 GeV/c, A. A. Kamal, Y. V. Rao, R. Rao B6 (1968) 523
On the low-energy behaviour of S-waves in $\pi\pi$ scattering, J. Pišút B8 (1968) 159
The graphical analysis of the pion-pion scattering data, P. Prešnajder B10 (1969) 169
A model for S-wave pion-pion scattering from analyticity, unitarity and crossing symmetry, B. Bonnier B10 (1969) 467

8.A.3. *K-mesons*

The process of Σ-Λ conversion following the nuclear absorption of $\bar{K}$ with the production of a π^-, J. Sawicki B1 (1967) 183
Boson mass squared formula and spurions, P. C. De Celles B1 (1967) 216
Evidence for a neutron excess in the surface of heavy nuclei from a K^- meson capture study, D. H. Davis, S. P. Lovell, M. Csejthey-Barth, J. Sacton, G. Schorochoff, M. O'Reilly B1 (1967) 434
The neutron distribution in the surface of heavy nuclei, E. H. S. Burhop B1 (1967) 438
K^- capture by ^{4}He and KN s-interaction, T. Kohmura B2 (1967) 225
K_{20}-K_{10} mass difference in the pole dominance model, A. H. Zimerman B2 (1967) 234
Complex spin and decay $K_2^0 \to 2\pi$, S. S. Sannikov B2 (1967) 326
The comparison of $K^\pm p$ and $K^\pm n$ dispersion relations with experiment, A. D. Martin, F. Poole B4 (1968) 467
Some aspects of Λ^0 production in multibody final states produced in 6 GeV/c K^-p interactions, L. K. Sisterson, K. Paler, D. B. Miller, A. Saeed, C. Fisher, P. J. Finney, W. W. M. Allison, D. H. Locke, L. Lyons, W. M. R. Blair, R. Erskine, J. D. Gordon, I. S. Hughes, R. M. Turnbull, W. Blum, D. C. Colley, M. Haque, F. MacDonald B6 (1968) 205
Consistency tests of the low-energy K^-p parametrizations, A. D. Martin, N. M. Queen, G. Violini B10 (1969) 481

8.A.4. *Baryons*

Quark model and annihilation at high energy, J. J. J. Kokkedee, L. Van Hove B1 (1967) 169
Hyperon-nucleon interactions and associate production on the deuteron, F. M. Renard, Y. Renard B1 (1967) 389
On the possibility of measuring the Σ^0-Λ transition magnetic moment in the reaction $\pi^- p \to \Lambda K^0 \gamma$, L. A. Kondratyuk, L. A. Ponomarev, V. I. Zakharov B5 (1968) 463

Some aspects of Λ^0 production in multibody final states produced in 6 GeV/c K^-p interactions, L. K. Sisterson, K. Paler, D. B. Miller, A. Saeed, C. Fisher, P. J. Finney, W. W. M. Allison, D. H. Locke, L. Lyons, W. M. R. Blair, R. Erskine, J. D. Gordon, I. S. Hughes, R. M. Turnbull, W. Blum, D. C. Colley, M. Haque, F. MacDonald B6 (1968) 205
Mass relations of baryons in a quark model, K. R. James B7 (1968) 336
Charge dependent effects of the photon-pion exchange process in the N-N interaction, J. S. Leung, Y. Nogami B7 (1968) 527

8.A.5. *Resonant states of baryons and mesons*

Properties of the neutral A-mesons, H. O. Cohn, R. D. McCulloch, W. M. Bugg, G. T. Condo B1 (1967) 57
The mass spectrum of the baryon excited states in the static model, M. Noga B1 (1967) 85
An impact parameter cut-off model for nucleon isobar excitation in inelastic pp scattering, A. Rotsstein B1 (1967) 655
The series of hyperon resonances in the static bootstrap model, M. Noga B2 (1967) 80
Relativistic Dalitz plot for the spin-parity determination of the L-meson, W. Majerotto, G. Otter, P. Möbius B2 (1967) 449
Quark model and radiative transitions, F. M. Renard B2 (1967) 537
Rho meson structure, M. Roos B2 (1967) 615
Experimental confirmation of R-meson structure, L. Dubal, M. N. Focacci, W. Kienzle, C. Lechanoine, B. Levrat, B. C. Maglic, M. Martin, P. Schubelin, G. Chikovani, M. Fischer, P. Grieder, H. A. Neal, C. Nef B3 (1967) 435
Formation of resonant states in $K^-p \to \bar{K}N$ between 780 and 1220 MeV/c, R. Armenteros, M. Ferro-Luzzi, D. W. G. Leith, R. Levi-Setti, A. Minten, R. D. Tripp, H. Filthuth, V. Hepp, E. Kluge, H. Schneider, R. Barloutaud, P. Granet, J. Meyer, J. P. Porte B3 (1967) 592
On the origin of the πK^* enhancement, E. D. Zhizhin B4 (1968) 413
Resonance production in 8 GeV/c π^+ interactions in hydrogen, K. Boesebeck, M. Deutschmann, G. Kraus, R. Schulte, H. Weber, C. Grote, K. Lanius, S. Nowak, E. Ryseck, M. Bardadin-Otwinowska, H. Böttcher, T. Byer, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, M. Markytan, D. R. O. Morrison, H. Tøfte B4 (1968) 501
Current algebra, pole dominance and meson coupling constants, F. Csikor, I. Montvay B5 (1968) 492
On the radiative decay of the A_2 meson, A. Q. Sarker B5 (1968) 560
Antiproton-proton annihilation into ($K\bar{K}+3\pi$) and ($K\bar{K}+4\pi$) at 1.2 GeV/c study of the D^0 properties, C. D'Andlau, A. Astier, L. Dobrzynski, J. Siaud, J. Barlow, L. Montanet, L. Tallone-Lambarc , A. M. Adamson, J. Duboc, M. Goldberg, R. A. Donald, D. N. Edwards, J. E. A. Lys B5 (1968) 693
Scalar meson widths, L. Micu B6 (1968) 367
Weinberg sum rules for one-particle matrix elements, G. Pócsik B7 (1968) 30
Dynamical separation of the resonance term from the background term, K. Kinoshita, Y. Kinoshita B7 (1968) 121
Current algebra, pole-dominance and meson coupling constants (II), F. Csikor, I. Montvay B7 (1968) 268

Observation and analysis of the 1660 MeV 3π-resonance "A_3" in 8 GeV/c π^+p interactions, J. Bartsch, E. Keppel, G. Kraus, R. Speth, N. Tsanos, C. Grote, K. Lanius, S. Nowak, E. Ryseck, H. Böttcher, V. T. Cocconi, J. D. Hansen, G. Kellner, U. Kruse, A. Mihul, D. R. O. Morrison, V. I. Moskalev, H. Tøfte B7 (1968) 345

Analysis of the $K^*(1320)$ and L-meson produced in 10 GeV/c K^-p interactions, J. Bartsch, M. Deutschmann, E. Keppel, G. Kraus, K. Rumpf, R. Speth, K. F. Albrecht, C. Grote, K. Lanius, D. Pose, H. Schiller, M. Bardadin-Otwinowska, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, M. Markytan, D. R. O. Morrison, H. Tøfte, D. P. Dallman, S. J. Goldsack, M. E. Mermikedes, A. Fröhlich, W. Kittel, W. Majerotto, G. Otter, H. Wahl B8 (1968) 9

Lower hadron states classification and SU(3) ⊗ SU(3) chiral algebra approximate saturation, F. Buccella, M. De Maria, B. Tirozzi B8 (1968) 521

Weinberg sum rules and the fππ vertex, F. Niedermayer, G. Pócsik B10 (1969) 35

Mass of kappa meson from spectral function sum rules, R. Acharya B10 (1969) 208

The formation of $Y_1^*(1665)$ in the reaction $K^-n \to \Sigma^0\pi^0$, R. Armenteros, P. Baillon, A. Minten, N. H. Khanh, V. Pelosi, M. Crozon, C. Louedec, J. L. Narjoux, F. Pierre B10 (1969) 459

Duality and the identification of resonances, P. D. B. Collins, G. G. Ross, E. J. Squires B10 (1969) 475

Decay rates of meson resonances in a quark model, L. Micu B10 (1969) 521

8.A.6. *Nucleon structure*

The neutron-neutron scattering length from the reaction n+d → 2n+p, E. Bar-Avraham, R. Fox, Y. Porath, G. Adam, G. Frieder B1 (1967) 49

Recoil polarization and structure of the deuteron, G. Ramachandran B2 (1967) 565

Photoproduction and electroproduction of pions - (III) ω and B exchange in low energy π^0 photoproduction, F. A. Berends, A. Donnachie, D. L. Weaver B4 (1968) 103

The neutron-proton mass difference and the A2 Regge pole, Y. Hara B8 (1968) 441

8.A.7. *Antinucleons and antibaryons*

Nucleon-antinucleon potential from single-meson exchanges, R. A. Bryan, R. J. N. Phillips B5 (1968) 201

Antiproton-proton annihilation into ($K\bar{K}+3\pi$) and ($K\bar{K}+4\pi$) at 1.2 GeV/c study of the D^0 properties, C. D'Andlau, A. Astier, L. Dobrzynski, J. Siaud, J. Barlow, L. Montanet, L. Tallone-Lambardi, A. M. Adamson, J. Duboc, M. Goldberg, R. A. Donald, D. N. Edwards, J. E. A. Lys B5 (1968) 693

Production of three pions in $\bar{p}p$ annihilations at rest, M. Foster, Ph. Gavillet, G. Labrosse, L. Montanet, R. A. Salmeron, P. Villemoes, C. Ghesquière, E. Lillestøl B6 (1968) 107

The four-prong annihilation of 1.2 GeV/c antiprotons in hydrogen (III). $K^+K^-\pi^+\pi^-$ and $K^+K^-\pi^+\pi^-\pi^0$ final states, A. G. Frodesen, O. Skjeggestad, R. S. Moore, S. Reucroft B10 (1969) 307

8.A.8. *Systems of nucleons and mesons in strong interaction*

Coherent production of π-mesons in collisions of 3.85 GeV/c π^--mesons with photoemulsion nuclei, B. A. Shahbazian B1 (1967) 16
Deuteron/singlet deuteron production in $p+p \rightarrow p+n+\pi$, I. Duck B1 (1967) 96
Three-dimensional deuteron wave function, P. J. Roberts B1 (1967) 114
Correlation function and π^- meson absorption, C. Nguyen-Trung, Y. Sakamoto B1 (1967) 139
On the production of isobars in a current algebra approach, N. Angelescu, E. Rădescu B1 (1967) 196
Momentum spectra of secondary particles in (π^-, N) interactions at 7 GeV, F. Lehar, V. Petrzilka, M. Suk B1 (1967) 199
A dispersion calculation of the real parts of the forward kaon-nucleon elastic scattering amplitudes at high energies, N. M. Queen B1 (1967) 207
On the binding of Σ^-nn, R. K. Bhaduri, Y. Nogami, W. Van Dijk B1 (1967) 269
Large-angle scattering at very high energies and unitary symmetries, H. A. Kastrup B1 (1967) 309
The $\pi^\pm$NN processes on light nuclei, T. I. Kopaleishvili B1 (1967) 335
Velocity-dependent potentials and the binding energy of the triton, L. Lovitch, S. Rosati B1 (1967) 369
Influence of high π-N partial waves on energy-levels of π-mesic atoms, A. Partensky, M. Ericson B1 (1967) 382
On zero mass pions, J. Hamilton B1 (1967) 449
The quark dissociation model of photoproduction, K. Kajantie, J. S. Trefil B1 (1967) 648
An impact parameter cut-off model for nucleon isobar excitation in inelastic pp scattering, A. Rotsstein B1 (1967) 655
Spin correlation parameter A_{xx} and A_{yy} measurements in p-p scattering from 11 MeV to 26 MeV, P. Catillon, M. Chapellier, D. Garreta B2 (1967) 93
Analysis of proton-nucleon interactions in nuclear emulsions at incident momenta 24 and 27 GeV/c, A. A. Kamal, G. K. Rao B2 (1967) 135
Cascade model analysis of the interactions of 17.2 GeV mesons with heavy emulsion nuclei, J. M. Kohli, I. S. Mittra, M. B. Singh B2 (1967) 164
K^- capture by ^{4}He and KN s-interaction, T. Kohmura B2 (1967) 225
A method of calculating charge branching ratios suggested by the statistical model, K. Zalewski, J. A. Danysz B2 (1967) 249
Relativistic nucleon-nucleon interactions, A. E. S. Green, T. Sawada B2 (1967) 267
Elementary and composite particles in the V-θ sector of the Lee model, S. R. Choudhury, P. K. Srivastava B2 (1967) 441
Three-nucleon force, B. A. Loiseau, Y. Nogami B2 (1967) 470
Structure of the trinucleons, B. F. Gibson B2 (1967) 501
Superconvergence in πN^* elastic scattering, P. H. Frampton B2 (1967) 518
Relativistic treatment of structure in the Coulomb interference problem, M. P. Locher B2 (1967) 525
Recoil polarization and structure of the deuteron, G. Ramachandran B2 (1967) 565

Meson-baryon scattering in a quark model, A. Deloff B2 (1967) 597
Velocity dependent OBEP and nucleon-nucleon scattering phase shift in the Born approximation, R. D. Sharma, A. E. S. Green B3 (1967) 33
Double-nucleon emission following the absorption of bound pions, J. M. Eisenberg, J. Letourneux B3 (1967) 47
On the mechanism of high-energy nucleon-nucleus collisions, Ming-Liang Shen B3 (1967) 77
Analyse de l'échange de charge K^-p à haute énergie à l'aide de deux poles de Regge ρ et R, A. Derem B3 (1967) 106
Pion-exchange contributions to the low-energy photodisintegration of deuterons, A. Reitan, F. Myhrer B3 (1967) 130
N/D approach to πN scattering in the P_{11} state with short-range forces, F. Kaschluhn B3 (1967) 139
On the possibility of obtaining particle scattering amplitudes from nuclear scattering processes, J. Formánek, J. S. Trefil B3 (1967) 155
Measurements of 1 GeV proton total scattering cross section on H, He, ^{6}Li, C, O and Pb targets, G. J. Igo, J. L. Friedes, H. Palevsky, R. Sutter, G. Bennett, W. D. Simpson, D. M. Corley, R. L. Stearns B3 (1967) 181
Pion charge-exchange scattering on nuclei and proton-neutron correlations, J. M. Eisenberg B3 (1967) 387
Experimental results on the $(K\bar{K})$ and $(K\pi)$ systems as observed in the annihilations $\bar{p}p \to K\bar{K}\pi$ at rest, B. Conforto, B. Maréchal, L. Montanet, M. Tomas, C. D'Anlau, A. Astier, J. Cohen-Ganouna, M. Della Negra, M. Bœubillier, J. Duboc, F. James, M. Goldberg, D. Spencer B3 (1967) 469
Determination of the $N\Lambda K$ and $N\Sigma K$ coupling constants from KN forward dispersion relations, G. H. Davies, N. M. Queen, M. Lusignoli, M. Restignoli, G. Violini B3 (1967) 616
A covariant theory of pion-deuteron elastic scattering, D. Schiff, J. Tran Thanh Van B3 (1967) 671
An attempt to determine Van Hove's overlap function and shadow elastic scattering from the measurements of inelastic π^+p interactions at 8 GeV/*c*, L. Michejda B4 (1968) 113
Determination of particle scattering amplitudes from nuclear photoproduction, J. Formánek, J. S. Trefil B4 (1968) 165
Current algebra and the σ-meson, M. A. Ahmed B4 (1968) 233
$\bar{p}p$ annihilation into pions, J. Hébert, H. Mes B4 (1968) 244
ρ-meson couplings and current algebra, M. A. Ahmed B4 (1968) 249
Strong decays of baryonic resonances $\frac{3}{2}^-$ and SU(3) symmetry, E. Cremmer B4 (1968) 257
Ξ^-, Ω^- and antibaryon production in 10 GeV/*c* K^-p interactions, J. Bartsch, M. Deutschmann, M. Hermanns, E. Keppel, R. Speth, C. Grote, J. Klugow, D. Pose, H. Schiller, M. Bardadin-Otwinowska, V. T. Cocconi, T. Byer, J. D. Hansen, J. Łoskiewicz, G. Kellner, U. Kruse, D. R. O. Morrison, H. Tøfte, D. P. Dallman, S. J. Goldsack, M. E. Mermikides, D. Pearce, A. Frohlich, W. Kittel, G. Otter, I. Wacek, H. Wahl B4 (1968) 326
Measurements of the differential cross section and polarization in proton-proton scattering at about 143 MeV, G. F. Cox, G. H. Eaton, C. P. Van Zyl, O. N. Jarvis, B. Rose B4 (1968) 353

Differential cross sections in proton-proton scattering at 52.34 MeV, J. Sanada, K. Kuriyama, T. Takeuchi, Y. Nojiri, N. Ryu, H. Hasai, M. Ikeda, S. Kobayashi, K. Nagamine, D. C. Worth, T. Yamaya B4 (1968) 379
On the origin of the πK^* enhancement, E. D. Zhizhin B4 (1968) 413
Production of pions by protons on nuclei and nuclear shape, B. Margolis B4 (1968) 433
Some aspects of transverse momentum in 17.2 GeV pion-nucleon interactions B4 (1968) 443
Simultaneous phase shift analysis of 210 MeV nucleon-nucleon scattering, Z. Janout, Yu. M. Kazarinov, F. Lehar, P. Winternitz B4 (1968) 527
A simple method of presenting joint decay distributions for pairs of resonances, A. Kotanski, K. Zalewski B4 (1968) 559
On the dominant role of the baryon variables in the description of high-multiplicity interactions at high energy, T. Hofmokl, L. Michejda, S. Otwinowski, R. Sosnowski, M. Szyptycka, W. Wójcik, A. Wróblewski B4 (1968) 573
Lambda-nucleon scattering, A. Deloff B4 (1968) 585
Central and peripheral interactions in pion-nucleon inelastic events at 17.2 GeV, J. M. Kohli B4 (1968) 620
Absorption of s-orbit π^- mesons by ^{4}He, D. S. Koltun, A. Reitan B4 (1968) 629
On a parity-violating nucleon-nucleon potential, R. Lacaze B4 (1968) 657
Calculations using the dispersion relations for forward $K^{\pm}p$ scattering, R. Perrin, W. S. Woolcock B4 (1968) 671
Asymmetry moments of angular distributions, P. Kielanowski, J. Werle B4 (1968) 682
Data compilation on baryon-baryon interactions (I) - Proton-proton collisions between 1 and 32 GeV/c, G. Alexander, O. Benary, U. Maor B5 (1968) 1
Production d'hyperfragments et de fragments ^{8}Li dans les interactions de mésons K^- de 10.1 GeV/c avec les noyaux de l'émulsion ionographique, J. P. Gerber, A. Bechdolff, G. Baumann, P. Cüer, J. Jousset, M. Montret B5 (1968) 75
π^+p interactions at 850 MeV/c, J. Debaisieux, P. Dufour, F. Grard, J. Heughebaert, F. Verbeure, R. Windmolders B5 (1968) 147
$pp \rightarrow pp\pi^+\pi^-$ interactions at 8.1 GeV/c, G. Kayas, J. Le Guyader, M. Sene, T. P. Yiou, J. Alitti, Nguyen Thuc Diem, G. Smadja, J. Ginestet, D. Manesse, Tran Ha Anh B5 (1968) 169
Cross section of ^{7}Be production from ^{12}C with protons of 3-12.5 GeV, A. F. Stehney, E. P. Steinberg B5 (1968) 188
O(3, 1) symmetry and the high-energy reaction $\pi N \rightarrow \eta N^*(1236)$, N. G. Antoniou, S. R. Komy, C. D. Palev, M. Samiullah B5 (1968) 195
On the neutrons produced in 24 GeV proton interactions in graphite, P. K. Aditya, S. K. Jha, S. Lokanathan, K. B. Bhalla B5 (1968) 259
On the solution of an equation for singlet $^1S_0$-wave of pp-scattering, V. I. Lendyel, E. V. Tovtin B5 (1968) 346
A study of $(\Sigma^{\pm}\pi^{\mp})$ pair emission from K^- meson absorptions at rest by emulsion nuclei, S. P. Lovell, G. Schorochoff B5 (1968) 381
Asymptotic projections of scattering models, V. Barger, M. Olsson, D. D. Reeder B5 (1968) 411
An impulse model theory of π-^{4}He scattering, M. M. Block, D. Koetke B5 (1968) 451

Mesure de la polarisation du proton dans la diffusion élastique $\pi^{\pm}$p entre 550 et 1025 MeV, G. Bizard, F. Bonthonneau, J. Deregel, J. Duchon, J. M. Fontaine, G. Landaud, J. L. Laville, F. Lefèbvres, F. Lemeilleur, J. P. Patry, H. Saur, J. Yonnet B5 (1968) 515

A covariant theory of the pionic disintegration of the deuteron, D. Schiff, J. Tran Thanh Van B5 (1968) 529

$K^*(890)$ production in 10 GeV/c K^-p interactions and comparison with absorption and Regge pole models, M. Aderholz, M. Deutschmann, E. Keppel, G. Kraus, H. Weber, U. Gensch, C. Grote, S. Nowak, D. Pose, M. Bardadin-Otwinowska, T. A. Byer, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, M. Markytan, D. R. O. Morrison, K. Zalewski, D. P. Dallman, S. J. Goldsack, N. C. Mukherjee, A. Frohlich, W. Kittel, G. Otter, P. Porth, I. Wacek B5 (1968) 567

Pion production in pion-proton collisions at 4-11 GeV/c multiplicity distribution and a possible qualitative interpretation of the baryon angular distribution, J. Bartke, O. Czyżewski B5 (1968) 582

Lambda production in 10 GeV/c K^-p interactions, M. Aderholz, J. Bartsch, E. Keppel, G. Kraus, R. Speth, C. Grote, J. Klugow, D. Pose, H. Schiller, M. Bardadin-Otwinowska, H. Böttcher, T. A. Byer, V. T. Cocconi, J. D. Hansen, G. Kellner, U. Kruse, J. Loskiewicz, M. Markytan, D. R. O. Morrison, S. J. Goldsack, M. E. Mermikides, N. C. Mukherjee, W. Kittel, G. Otter, P. Porth, I. Wacek, H. Wahl B5 (1968) 606

Analysis of the peripheral model for the process $p+p \rightarrow p+n+\pi^+$ at 0.5 - 0.7 GeV, V. C. Suslenko, V. I. Kochkin B5 (1968) 657

Backward pion-nucleon scattering and fermion-exchange mechanisms, A. P. Contogouris, J. Tran Thanh Van, M. Le Bellac B5 (1968) 683

Soft pions and finite-energy sum rules: Application to scattering of pions by $\frac{1}{2}^+$ baryons, G. Costa, G. Shaw B6 (1968) 1

Intranuclear cascades with many-particle interactions, I. Z. Artykov, V. S. Barashenkov, S. M. Eliseev B6 (1968) 11

Theory of photoproduction of pions from ^{11}B and ^{16}O, D. Griffiths, C. W. Kim B6 (1968) 49

An absorption model consistent with elastic unitarity, C. E. Robinson, A. Dar B6 (1968) 62

A new method for obtaining information about the s-wave $\pi\pi$ interaction from the reaction $\pi^-p \rightarrow \pi^0\pi^0n$, A. B. Clegg B6 (1968) 75

Particle production in nuclei and unstable particle cross sections, K. S. Kölbig, B. Margolis B6 (1968) 85

Production of three pions in $\bar{p}p$ annihilations at rest, M. Foster, Ph. Gavillet, G. Labrosse, L. Montanet, R. A. Salmeron, P. Villemoes, C. Ghesquière, E. Lillestøl B6 (1968) 107

The four-prong annihilation of 1.2 GeV/c antiprotons in hydrogen (I): Four-pion final state, R. A. Donald, D. N. Edwards, R. S. Moore, E. J. C. Read, S. Reucroft, A. G. Frodesen, T. Jacobsen, S. Sire, O. Skjeggestad, P. Saetre, H. Tøfte, A. Bettini, S. Limentani, L. Peruzzo, R. Santangelo, S. Sartori B6 (1968) 174

The overlap function in many-body theory, R. Jackiw B6 (1968) 233
π^+n interactions at 3.29 GeV/c: four- and five-pion events, W. M. Bugg, G. T. Condo, J. T. Humphreys, R. D. McCulloch, H. O. Cohn B6 (1968) 246
Elastic scattering of negative kaons on polarized protons between 1.4 and 2.5 GeV/c, C. Daum, F. C. Erné, J. P. Lagnaux, J. C. Sens, M. Steuer, F. Udo B6 (1968) 273
Rho-meson shape, J. Pišút, M. Roos B6 (1968) 325
Negative pion-nucleon interactions at 3.85 GeV/c using nuclear emulsions in a magnetic field, G. G. Beznogikh, B. A. Shahbazian, N. F. Trouskova B6 (1968) 373
Vector meson dominance and polarization, H. Fraas, D. Schildknecht B6 (1968) 395
Approximations in the calculation of capture rates in K^- mesic atoms, J. R. Rook B6 (1968) 543
On the peripherality of multiple production processes, A. Krzywicki B6 (1968) 554
Absorption of positive pions at low energy by the deuteron, Il-Tong Cheon, A. Tohsaki B6 (1968) 585
Model of s- and p-wave πN scattering, V. V. Serebryakov, D. V. Shirkov B6 (1968) 607
Elastic scattering of antiprotons on polarized protons at 1.73, 2.13, 2.37 and 2.97 GeV/c, C. Daum, F. C. Erné, J. P. Lagnaux, J. C. Sens, M. Steuer, F. Udo B6 (1968) 617
Meson-nucleus interactions at very high energies, I. Z. Artykov, V. S. Barashenkov B6 (1968) 628
Analysis of the decay of ρ^- mesons produced in π^-p interactions at 2.26 GeV/c, B. G. Reynolds, J. R. Albright, R. H. Bradley, E. B. Brucker, W. C. Harrison, B. C. Harms, J. E. Lannutti, W. H. Sims, R. P. Wieckowicz B6 (1968) 633
Do we really understand the $A_1\rho\pi$ system?, J. Kuti B6 (1968) 655
Elastic scattering of vector mesons by protons from photoproduction, B. Margolis B6 (1968) 687
The reactions $\pi^-p \to \rho^0 n$ and $K^-p \to K^{*0}(890)n$ at 11.2 GeV/c, B. D. Hyams, W. Koch, D. C. Potter, J. D. Wilson, L. Von Lindern, E. Lorenz, G. Lütjens, U. Stierlin, P. Weilhammer B7 (1968) 1
Contribution to the search for spins and parities of Y^*'s in the 2.0 - 2.4 GeV mass region, C. Daum, F. C. Erné, J. P. Lagnaux, J. C. Sens, M. Steuer, F. Udo B7 (1968) 19
Models for the process $p+p \to d+\pi^+$ at 3-13 GeV/c, D. J. Brown B7 (1968) 37
Kinematics of momentum transfers in many-body final states, L. Lyons B7 (1968) 83
Photopion reactions in complex nuclei, G. Nydahl, B. Forkman B7 (1968) 97
Total and differential cross sections in 10 GeV/c K^-p interactions, M. Aderholz, M. Deutschmann, E. Keppel, G. Kraus, H. Weber, U. Gensch, G. Grote, S. Nowak, D. Pose, H. Böttcher, T. A. Byer, V. T. Cocconi, E. Flaminio, J. D. Hansen, G. Kellner, U. Kruse, L. Łoskiewicz, M. Markytan, D. R. O. Morrison, N. C. Barford, D. P. Dallman, S. J. Goldsack, N. C. Mukherjee, W. Kittel, C. Kraft, D. Kuhn, G. Otter, I. Wacek B7 (1968) 111
On the single ρ Regge-pole exchange model and the πN charge-exchange process, Meng Ta-Chung, H. G. Schlaile, R. Strauss B7 (1968) 133

The width of hadrons, G. Matthiae B7 (1968) 142
Spin and isospin in high-energy charge-exchange reactions on deuterons, G. Ebel, H. Pilkuhn B7 (1968) 147
Some characteristic features of six prong π^-p interactions at 7.0 GeV/c, M. A. Ijaz, J. Campbell B7 (1968) 175
Bootstrap theory of static pion-baryon scattering, connections with strong-coupling theory, C. Cronström, M. Noga B7 (1968) 201
Vector dominance sum rules for meson-baryon scattering, R. H. Graham, M. Huq B7 (1968) 250
Data compilation of baryon-baryon interactions (II), Proton-neutron collisions between 1 and 27 GeV/c, G. Alexander, O. Benary, U. Maor B7 (1968) 281
Electromagnetic production of pions from nuclei, L. M. Saunders B7 (1968) 293
Relativistic proton-proton scattering, G. Schierholz B7 (1968) 483
Pion creation and quark phenomenology, H. Winzeler B7 (1968) 625
Test of absorption-model predictions in double resonance production by 5 GeV/c π^+ mesons on protons, Bonn-Durham-Nijmegen-Paris-Strasbourg-Turin Collaboration B7 (1968) 681
Fermi motion in pion deuteron scattering at high energies, G. Fäldt, T. E. O. Ericson B8 (1968) 1
Experimental evidence for the onset of baryon exchange in πp backward scattering below 3 GeV/c, J. Banaigs, J. Berger, C. Bonnel, J. Duflo, L. Goldzahl, F. Plouin, W. F. Baker, P. J. Carlson, V. Chabaud, A. Lundby B8 (1968) 31
Structure in differential cross section distributions of two-body reactions in 8 GeV/c π^+p interactions, M. Aderholz, M. Deutschmann, E. Keppel, G. Kraus, H. Weber, C. Grote, H. H. Kaufmann, S. Nowak, M. Walter, H. Böttcher, T. Byer, V. T. Cocconi, P. F. Dalpiaz, J. D. Hansen, G. Kellner, W. Kittel, M. Markytan, A. Mihul, D. R. O. Morrison, H. Tøfte B8 (1968) 45
N-N* interactions with Faddeev equations, W. A. Gale, I. M. Duck B8 (1968) 109
Subtractions and off-shell continuation of weak form factors, H. D. Dahmen, K. D. Rothe, L. Schülke B8 (1968) 150
Experimental results on $\bar{p}p \to \eta\pi^+\pi^-$ and $\bar{p}p \to X^0\pi^+\pi^-$ for annihilations at rest, M. Foster, Ph. Gavillet, G. Labrosse, L. Montanet, R. A. Salmeron, P. Villemoes, C. Ghesquière, E. Lillestøl B8 (1968) 174
Energy-independent partial-wave analysis of $\bar{K}N \to \Lambda\pi$ between 600 and 1200 MeV/c, R. Armenteros, P. Baillon, C. Bricman, M. Ferro-Luzzi, H. K. Nguyen, V. Pelosi, D. E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R. R. Ross, R. Barloutaud, P. Granet, J. Meyer, J. L. Narjoux, F. Pierre, J. P. Porte, J. Prevost B8 (1968) 183
The reactions $K^-p \to K^-p$ and $K^-p \to \bar{K}^0n$ between 600 and 1200 MeV/c, R. Armenteros, P. Baillon, C. Bricman, M. Ferro-Luzzi, D. E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R. R. Ross, R. Barloutaud, P. Granet, J. Meyer, J. P. Porte, J. Prevost B8 (1968) 195
Study of the interaction $K^-N \to \Sigma\pi\pi$ between 600 and 1200 MeV/c, R. Armenteros, P. Baillon, C. Bricman, M. Ferro-Luzzi, H. K. Nguyen, V. Pelosi, D. E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R. R. Ross, R. Barloutaud, P. Granet, J. Meyer, J. L. Narjoux, F. Pierre, J. P. Porte, J. Prevost B8 (1968) 216

Partial-wave analysis of the reaction $K^-p \to \Sigma\pi$ between 0.6 and 1.0 GeV/c, R. Armenteros, P. Baillon, C. Briceman, M. Ferro-Luzzi, D.E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte, J. Prevost B8 (1968) 223

The $\bar{K}N$ interaction from 800 to 1200 MeV/c (I). K^-p cross sections, R. Armenteros, M. Ferro-Luzzi, D.W.G.S. Leith, R. Levi-Setti, A. Minten, R.D. Tripp, H. Filthuth, V. Hepp, E. Kluge, H. Schneider, R. Barloutaud, P. Granet, J. Meyer, J.P. Porte B8 (1968) 233

The $\bar{K}N$ interaction from 800 to 1200 MeV/c (II). K^-p and $\bar{K}N\pi$ final states from an analysis of two-prong events, B. Conforto, D.-M. Harmsen, T. Lasinski, R. Levi-Setti, M. Raymund, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R.R. Ross B8 (1968) 265

Regge-pole model for the invariant functions of the nucleon-nucleon and meson-nucleon scattering, K.H. Mütter B8 (1968) 311

On the generalization of canonical commutation relations with respect to the orthogonal group in even dimensions, B. Geyer B8 (1968) 326

Quasi-two-body reactions in 13 GeV/c K^+p interactions, J.C. Berlinghieri, M.S. Farber, T. Ferbel, B.E. Forman, A.C. Melissinos, P.F. Slattery, H. Yuta B8 (1968) 333

Experimental investigation of $\Delta S/\Delta Q$ rule in leptonic K^0 decays, F. James, H. Briand B8 (1968) 365

Coherent production of the $p\pi^+\pi^-$ enhancement at 1470 MeV by 28 GeV/c protons on neon, F.R. Huson, D.J. Miller, J.S. O'Neall B8 (1968) 391

Resonance formation in the reactions $K^-p \to K^+\Xi^-$ and $K^-p \to K^0\Xi^0$ in the mass region from 1915 to 2168 MeV, G. Burgun, J. Meyer, E. Pauli, B. Tallini, J. Vrana, A. De Bellefon, A. Berthon, K.L. Rangan, J. Beaney, S.M. Deen, C.M. Fischer, J.R. Smith B8 (1968) 447

Six-prong events produced in 16 GeV/c π^-p interactions, B. Junkmann, E. Keppel, G. Kraus, R. Schulte, R. Steinberg, C. Grote, S. Nowak, E. Ryseck, H.J. Schreiber, K. Böckmann, H. Drevermann, N. Stief, K. Sternberger, B. Wagini, K.W.J. Barnham, V.T. Cocconi, J.D. Hansen, G. Kellner, W. Kittel, D.R.O. Morrison, H. Tøfte, A. Mihul, M. Bardadin-Otwinowska, T. Hofmokl, L. Michejda, S. Otwinowski, R. Sosnowski, M. Szeptycka, W. Wojcik, A. Wroblewski B8 (1968) 471

Quark-model predictions for joint decay distributions in π^+p double resonance production reactions at 8 GeV/c, M. Aderholz, J. Bartsch, M. Deutschmann, G. Kraus, R. Steinberg, C. Grote, S. Nowak, E. Ryseck, M. Walter, K.W.J. Barnham, V.T. Cocconi, J.D. Hansen, G. Kellner, W. Kittel, D.R.O. Morrison, K. Paler, H. Tøfte B8 (1968) 485

$Y_0^*(1520)$ production and decay in the reaction $K^-n \to Y_0^*(1520)\pi^-$ at 3 GeV/c, J.C. Scheuer, D. Merrill, A. Verglas, S.A. De Wit, A.G. Tenner, A. Minguzzi-Ranzi, A.M. Rossi, U. Karshon, A. Shapira, E. Huffer, G. Lamidey B8 (1968) 503

The $K^-n \to K^-\pi^-p$ reaction at 2.24 GeV/c, K.F. Galloway, E.D. Alyea Jr., J.P. Chandler, R.R. Crittenden, H.J. Martin Jr. B8 (1968) 545

Dispersion calculation of the π-π scattering lengths, N. F. Nasrallah B8 (1968) 622
Total cross sections of high-energy particles on atomic nuclei, A. Y. Abul-Magd B8 (1968) 638
On the npd vertex functions, R. D'Auria, E. Predazzi, F. Selleri B8 (1968) 645
The reaction $pp \rightarrow N^{*}p\pi^{-}$ at 6 GeV/c, L. Lyons B8 (1968) 686
Low-energy production processes and the pion-pion interaction, S. Humble B8 (1968) 695
Unified static bootstrap model for even- and odd-parity baryon excited states, M. Noga, C. Cronström B9 (1969) 89
The reaction $\gamma p \rightarrow \rho^{0}p$ as two-pion exchange, H. J. Schreiber B9 (1969) 164
Elastic backward scattering of pions and kaons, W. F. Baker, P. J. Carlson, V. Chabaud, A. Lundby, J. Banaigs, J. Berger, C. Bonnel, J. Duflo, L. Goldzahl, F. Plouin B9 (1969) 249
Coherent K^{*} production in $K^{+}d$ reactions at 3 GeV/c, K. Buchner, G. Dehm, G. Goebel, H. Hupe, T. Joldersma, I. S. Mittra, W. Wittek, J. M. Crispeels, J. Debaisieux, M. Delabaye, P. Dufour, F. Grard, J. Heughebaert, J. Naisse, G. Thill, A. Grant, V. P. Henri, B. Jongejans, U. Kundt, F. Muller, R. L. Sekulin, G. Wolf B9 (1969) 286
Study of multi-body final states in $K^{+}p$ reactions at an incident momentum of 5 GeV/c, G. Bassompierre, Y. Goldschmidt-Clermont, A. Grant, V. P. Henri, B. Jongejans, D. Linglin, F. Muller, H. Piotrowska, J. M. Perreau, I. Saitov, R. Sekulin, G. Wolf, W. De Beare, J. Debaisieux, E. De Wolf, P. Dufour, F. Grard, J. Heughebaert, L. Pape, P. Peeters, F. Verbeure, R. Windmolders B9 (1969) 295
Longitudinal phase-space plots of multiparticle hadron collisions at high energy, L. Van Hove B9 (1969) 331
Multiple pion production in K^{+}-proton collisions at 3.5 GeV/c, A. R. Erwin, W. D. Walker, A. T. Goshaw, A. Weinberg B9 (1969) 364
Production of $K^{*}(1300)$ and $K^{*}(1400)$ resonances in $K^{+}p$ interactions at 3.5 GeV/c, J. M. Bishop, A. T. Goshaw, A. R. Erwin, W. D. Walker B9 (1969) 403
Energy dependence of the quasi-free $(\pi^{+}, 2p)$ reactions and evidence for the reaction $\pi^{+} + (2N) \rightarrow \pi + p + p$ in nuclei, T. Bressani, G. Charpak, J. Favier, L. Massonnet, W. E. Meyerhof, Č. Zupančič B9 (1969) 427
Neutron-proton radius difference and pion production by protons on nuclei, W. Hirt B9 (1969) 447
Study of the reactions $K^{-}n \rightarrow \Lambda\pi^{-}$ and $K^{-}n \rightarrow \Sigma^{0}\pi^{0}$ at 3 GeV/c, R. Barloutaud, Duong Nhu Hoa, J. Griselin, D. W. Merrill, J. C. Scheuer, W. Hoogland, J. C. Kluyver, A. Minguzzi-Ranzi, A. M. Rossi, B. Haber, E. Hirsch, J. Goldberg, M. Laloum B9 (1969) 493
Some qualitative aspects of O(3, 1) partial-wave analysis of off-forward N-N scattering, C. O. Nwachuku B9 (1969) 501
Small-angle d-p elastic scattering at 1.69 GeV/c, L. M. C. Dutton, R. J. W. Howells, J. D. Jafar, H. V. Van der Raay B9 (1969) 594
$K^{\pm}p$ elastic scattering at 3.55 GeV/c, J. Banaigs, J. Berger, C. Bonnel, J. Duflo, L. Goldzahl, F. Plouin, W. F. Baker, P. J. Carlson, V. Chabaud, A. Lundby B9 (1969) 640

Angular correlation of gamma-quanta produced by negative pions stopping in hydrogen, I. M. Vasilevsky, V. V. Vishnyakov, A. F. Dunaitsev, Yu. D. Prokoshkin, V. I. Rykalin, A. A. Tyapkin B9 (1969) 673
Charge exchange pion scattering by ^{13}C, F. H. Bakke, A. Reitan B10 (1969) 43
O(3, 1) symmetry and the high-energy reaction $K^+p \to K^{*+}(890)p$, S. Raghavan, M. Samiullah B10 (1969) 53
Veneziano's model and current algebra sum rules in $\pi\pi$ scattering, P. Brooker B10 (1969) 59
Existence and properties of the C-meson as observed in $\bar{p}p$ annihilations at rest, A. Astier, J. Cohen-Ganouna, M. Della-Negra, B. Maréchal, L. Montanet, J. Zoll, M. Baubillier, J. Duboc, F. Lévy, R. James, D. N. Edwards, R. Donald B10 (1969) 65
A soluble model for the $\pi\Lambda$ interaction, N. M. Queen B10 (1969) 89
A new analysis of the low-energy K^+p scattering data, A. D. Martin, R. Perrin B10 (1969) 125
High-energy pp large-angle scattering, I. V. Andreev, I. M. Dremin, I. M. Gramenitskii B10 (1969) 137
Analysis of angular distributions for the process $\gamma p \to n\pi^+$ in the region of 230-350 MeV, Yu. M. Aleksandrov, V. F. Grushin, E. M. Leikin B10 (1969) 145
Fit to $K^*(890)N$ production by means of reggeized helicity amplitudes, M. Markytan B10 (1969) 193
Production mechanism of some 6 GeV/c K^-p interactions, K. Paler, P. Chaudhuri, L. K. Sisterton, A. W. Eskreys, L. Lyons, P. J. Finney B10 (1969) 221
Low-energy pion-pion parameters from forward dispersion relations, D. Morgan, G. Shaw B10 (1969) 261
Form factors, N-N OBEP, and L^2 interactions, T. Ueda, A. E. S. Green B10 (1969) 289
Charge-exchange reaction of pions on light nuclei, Y. Sakamoto B10 (1969) 299
The four-prong annihilation of 1.2 GeV/c antiprotons in hydrogen (III). $K^+K^-\pi^+\pi^-$ and $K^+K^-\pi^+\pi^-\pi^0$ final states, A. G. Frodesen, O. Skjeggestad, R. S. Moore, S. Reucroft B10 (1969) 307
Absorption of π-mesons by ^3He, A. Figureau, M. Ericson B10 (1969) 349
Contribution of N and Δ exchanged Regge trajectories to high-energy backward meson-baryon scattering, Y. Noirot, M. Rimpault, Y. Saillard B10 (1969) 368
O(3, 1) symmetry and associated production reactions, M. Samiullah, A. Srinivas Rao B10 (1969) 390
From soft to real pions in nuclei and extended systems, M. Ericson, A. Figureau, A. Molinari B10 (1969) 501
Data compilation of baryon-baryon interactions (III). Hyperon-proton collisions, G. Alexander, O. Benary, U. Karshon, U. Maor B10 (1969) 554
Dispersion relations and Glauber model for pion-deuteron scattering, G. Fäldt B10 (1969) 597
Forward scattering in some two-body reactions involving $\frac{1}{2}^+$ baryons and 0^- mesons at 3 GeV/c, R. Barloutaud, A. Derem, J. Griselin, D. W. Merrill, J. C. Scheuer, J. Goldberg, A. Rougé, S. Focardi B10 (1969) 683

8.A.9. *Hypernuclei*

A compilation of binding energy values of light hypernuclei, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. Harmsen, R. Levi Setti, M. Raymund, J. Zakrzewski, D. Stanley, D. H. Davis, E. R. Fletcher, J. E. Allen, V. A. Bull, A. P. Conway, P. V. March B1 (1967) 105
Hyperon-nucleon interactions and associate production on the deuteron, F. M. Renard, Y. Renard B1 (1967) 389
Interactions of 1.5 GeV/c K^- mesons with emulsion nuclei - General characteristics, production, and decay of hyperfragments, J. Cuevas, J. Diaz, D. M. Harmsen, W. Just, E. Lohrmann, L. Schink, H. Spitzer, M. W. Teucher B1 (1967) 411
Λ-nucleon spin-orbit force and the Λ-^{4}He elastic scattering, G. Alexander, A. Gal, A. Gersten B2 (1967) 1
Search for resonant states of Λ^6Li and Λ^{9*}Be hypernuclei, D. T. Goodhead, D. A. Evans B2 (1967) 121
A search for rare decay modes of hydrogen and helium hypernuclei, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. H. Davis, E. R. Fletcher B2 (1967) 282
Is a Λ^7Li hyperisomer possible?, J. Pniewski, Z. Szymański, D. H. Davis, J. Sacton B2 (1967) 317
Effect of three-body ΛNN long-range potential in nuclear matter, R. K. Bhaduri, B. A. Loiseau, Y. Nogami B3 (1967) 380
Spallation hypernuclei produced by 6 GeV/c K^- mesons, D. A. Evans, D. T. Goodhead B3 (1967) 441
The $\Lambda\Lambda^{11}$Be interpretation of the first discovered $\Lambda\Lambda$ hypernuclear event, S. Ali, L. P. Kok B3 (1967) 547
Final state interaction effects in π^- mesonic decays of light hypernuclei, D. M. Harmsen, R. Levi Setti, J. Zakrzewski, W. Gajewski, J. Sacton, P. Vilain, G. Wilquet, D. H. Davis, E. R. Fletcher, J. E. Allen, A. P. Conway B4 (1968) 277
On the binding energy of a Λ-particle in nuclear matter, M. E. Grypeos, L. P. Kok, S. Ali B4 (1968) 335
A determination of the binding energy values of light hypernuclei, G. Bohm, J. Klabuhn, U. Krecker, F. Wysotski, G. Coremans, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. O'Sullivan, D. Stanley, D. H. Davis, E. R. Fletcher, S. P. Lovell, N. C. Roy, J. H. Wickens, A. Filipkowski, K. Garbowska-Pniewska, T. Pniewski, E. Skrzypczak, T. Sobczak, J. E. Allen, V. A. Bull, A. P. Conway, A. Fishwick, P. V. March B4 (1968) 511
The question of the existence of a particle-stable Λ^6Li hypernucleus, G. Coremans, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. H. Davis, J. H. Wickens B4 (1968) 580
Lambda-nucleon scattering, A. Deloff B4 (1968) 585
On the quasipotential description of the negaton-positon interaction, G. M. Desimirov, M. D. Mateev B4 (1968) 649
Production d'hyperfragments et de fragments ^{8}Li dans les interactions de mésons K^- de 10.1 GeV/c avec les noyaux de l'émulsion ionographique, J. P. Gerber, A. Bechdolff, G. Baumann, P. Cüer, J. Jousset, M. Montret B5 (1968) 75

The problem of lambda-particle binding in nuclear matter, G. Mueller, J. W. Clark B7 (1968) 227
Light fragments with $Z \geq 4$ emitted in the interaction of 1.5 GeV/c K^- mesons with Ag and Br nuclei, M. Jurić, S. Popov B8 (1968) 565
The π^+ mesonic decays of light hypernuclei, G. Bohm, J. Klabuhn, U. Krecker, F. Wysotzki, G. Coremans, W. Gajewski, C. Mayeur, J. Sacton, P. Vilain, G. Wilquet, D. O'Sullivan, S. Stanley, D. H. Davis, E. R. Fletcher, S. P. Lovell, N. C. Roy, J. H. Wickens, A. Filipkowski, K. Garbowska-Pniewska, T. Pniewski, E. Skrzypczak, T. Sobczak, J. E. Allen, V. A. Bull, A. P. Conway, A. Fishwick, P. V. March B9 (1969) 1
Effect of three-body ΛNN intermediate-range potential in light hypernuclei and in nuclear matter, B. A. Loiseau B9 (1969) 169
Systematic investigation of mesonic hypernuclei with four and more decay prongs, W. A. Barletta, D.-M. Harmsen B10 (1969) 99

8.B. *Electromagnetic interactions*

Laboratory angular and momentum distributions of protons, kaons, and pions from photoproduction on hydrogen at energies up to 5.8 GeV, U. Brall, R. Erbe, G. Reimann, E. Schüttler, W. Bothin, H. Böttcher, K. Lanius, A. Meyer, A. Pose, J. Schreiber, K. Böckmann, W. Johnssen, J. Moebes, H. Mück, B. Nellen, W. Tejessy, G. Harigel, G. Horlitz, E. Lohrmann, H. Meyer, W. P. Swanson, M. W. Teucher, G. Wolf, S. Wolff, D. Lüke, D. Pollmann, P. Söding, H. Spitzer, H. Beisel, H. Filthuth, H. Kolar, P. Steffen, P. Freund, N. Schmitz, J. Seyerlein, P. Seyboth B1 (1967) 668

8.B.1. *Quantum electrodynamics*

The Dirac equation at high energies, S. Datta Majumdar B1 (1967) 41
Quantum electrodynamics with magnetic monopole, R. V. Tevikian B1 (1967) 79
Eta decays with e^+e^- and $\mu^+\mu^-$ pairs, C. Jarlskog, H. Pilkuhn B1 (1967) 264
Algebraic computation of radiative corrections for electron-proton scattering, J. A. Campbell B1 (1967) 283
Total absorption measurements of 100-250 MeV photons in hydrogen, G. R. Brookes, R. Railton, J. G. Rutherglen, I. L. Smith B2 (1967) 424
Proton-proton Bremsstrahlung, W. A. Pearce, W. A. Gale, I. M. Duck B3 (1967) 241
Radiative corrections to the non-leptonic Σ decays and the $\Delta I = \frac{1}{2}$ rule, C. Jarlskog B3 (1967) 365
Inappropriateness of the anomalous magnetic moment as a test of quantum electrodynamics, K. Okamoto B4 (1968) 226
Analytic behavior of electron propagator for complex $e^2/\hbar c$, G. Frieder, A. Peres B4 (1968) 306
Remarks concerning the possibility of finite charge renormalization in spinor electrodynamics, R. Jackiw B5 (1968) 158
Radiative corrections to weak pion decays, H. Snellman B5 (1968) 220
Finiteness of radiative corrections in all orders to μ-decay, P. Van Nieuwenhuizen B7 (1968) 160
Asymmetrical pair production in quantum electrodynamics with modified fermion propagator, H. Fraas B9 (1969) 433

8.B.2. *Radiation field, photons*

Algebraic computation of radiative corrections for electron-proton scattering, J. A. Campbell B1 (1967) 283
Complex angular momentum and unstable levels of H-like atoms and positonium, S. S. Sannikov B1 (1967) 577
Measurements on 6.3 GeV electromagnetic cascades and cascade-produced neutrons, G. Bathow, E. Freytag, K. Tesch B2 (1967) 669
Proton-proton Bremsstrahlung, A. Reitan B3 (1967) 147
On the separation of infrared contributions to radiative corrections in terms of an exponential factor under general experimental conditions, R. D. Kohaupt B8 (1968) 627

8.B.3. *Positon, positonium*

Complex angular momentum and unstable levels of H-like atoms and positonium, S. S. Sannikov B1 (1967) 577
Positon-negaton scattering, F. R. Connor B6 (1968) 693

8.B.4. *Electron and muon interactions with nuclei*

Utilisation d'une chambre à étincelles pour mesurer la polarisation des muons cosmiques d'impulsion 750 MeV/c, G. Landaud, J. P. Patry, M. Schérer B1 (1967) 7
Excitation of the giant dipole resonance in μ-capture, V. V. Balashov, G. Ya. Korenman, V. L. Korotkih, V. N. Fetisov B1 (1967) 158
On the calculation of the total muon capture rates for ^{6}Li and ^{7}Li, A. Lodder, C. C. Jonker B2 (1967) 383
Relativistic treatment of muon capture in deuterium. Application to the determination of neutron-neutron scattering length and effective range, E. Cremmer B2 (1967) 409
Structure of the trinucleons, B. F. Gibson B2 (1967) 501
On break-up channels in muon capture by ^{3}He, R. Pascual B3 (1967) 561
Asymmetry of recoil nuclei in capture of polarized muons, A. Galindo, P. Pascual B4 (1968) 295
Single scattering of 5 GeV/c muons in nuclear emulsion, P. J. McNulty, R. O. Breault, P. L. Jain B5 (1968) 181
The systematics of muon capture in an independent-particle shell model, A. Bogan Jr. B5 (1968) 431
The total photonuclear cross section at high energies as determined from the neutron production by fast muons, O. C. Allkofer, R. D. Andresen B8 (1968) 402
P-odd effects in (ep) and (μp) scattering, G. A. Lobov, E. P. Shabalin B9 (1969) 75
Hadronic contributions to the muon g-factor, M. Gourdin, E. De Rafael B10 (1969) 667

8.B.5. *Electromagnetic properties of baryons*

On the Regge pole model for isovector nucleon form factors, Meng Ta-Chung B1 (1967) 219
Radiative corrections to β-decay and nucleon form factors, G. Källén B1 (1967) 225
Electromagnetic form factors in the bootstrap theory, M. Noga B1 (1967) 301

Remarks concerning inelastic electron scattering from ^{3}He, B. F. Gibson, G. B. West B1 (1967) 349
The quasi-deuteron photodisintegration process in lithium, carbon and calcium, I. L. Smith, J. Garvey, J. G. Rutherglen, G. R. Brcokes B1 (1967) 483
The effect of high-mass channels on electromagnetic mass differences of baryons and vector mesons, P. Lichard, J. Pišút B1 (1967) 511
Magnetic moments and pion currents in nuclear matter, E. M. Nyman B1 (1967) 535
The quark dissociation model of photoproduction, K. Kajantie, J. S. Trefil B1 (1967) 648
Electromagnetic mass differences of pseudoscalar and vector mesons in bound-state bootstrap models, P. Lichard, J. Pišút B2 (1967) 8
Electromagnetic mass splittings of mesons and baryons in the quark model, A. Gal, F. Scheck B2 (1967) 110
Photoproduction of charged pions from ^{16}O, V. Devanathan, M. Rho, K. Srinivasa Rao, S. C. K. Nair B2 (1967) 329
Negaton-positon pair creation in pion-nucleon interactions, J. P. Loubaton, J. Tran Thanh Van B2 (1967) 342
Electromagnetic energy difference of ^{3}H and ^{3}He and charge asymmetry of nuclear forces, K. Okamoto, C. Lucas B2 (1967) 347
Total absorption measurements of 100-250 MeV photons in hydrogen, G. R. Brookes, R. Railton, J. G. Rutherglen, I. L. Smith B2 (1967) 424
Meson mixing and the charge asymmetry of the N-N interaction, B. W. Downs, Y. Nogami B2 (1967) 459
The analytic continuation of nucleon form factors, J. E. Bowcock, W. N. Cottingham, J. G. Williams B3 (1967) 95
Pion-exchange contributions to the low-energy photodisintegration of deuterons, A. Reitan, F. Myhrer B3 (1967) 130
Proton-proton Bremsstrahlung, A. Reitan B3 (1967) 147
Proton-proton Bremsstrahlung, W. A. Pearce, W. A. Gale, I. M. Duck B3 (1967) 241
A Regge pole model fit of pion and K meson photoproduction, J. P. Ader, M. Capdeville, Ph. Salin B3 (1967) 407
The γNN^* coupling from current algebra, K. J. Barnes, R. M. Williams B3 (1967) 424
Photoproduction and electroproduction of pions (I)- Dispersion relation theory, F. A. Berends, A. Donnachie, D. L. Weaver B4 (1968) 1
Photoproduction and electroproduction of pions (II)- Photopion production below 500 MeV, F. A. Berends, A. Donnachie, D. L. Weaver B4 (1968) 54
Photoproduction and electroproduction of pions (III)- ω and B exchange in low energy π^0 photoproduction, F. A. Berends, A. Donnachie, D. L. Weaver B4 (1968) 103
Determination of particle scattering amplitudes from nuclear photoproduction, J. Formánek, J. S. Tréfil B4 (1968) 165
Photoproduction of soft pions in $\gamma + {}^3\mathrm{He} \rightarrow \pi^+ + {}^3\mathrm{H}$, D. Griffiths, C. W. Kim B4 (1968) 309
Electric dipole operators and mixed representations in U(3) $\otimes$ U(3), K. Tóth B4 (1968) 450
Multipole analysis of pion photoproduction below the first resonance, T. Wennström B5 (1968) 235

"Absorption effects" for high-energy photons, G. Kramer, K. Schilling, L. Stodolsky B5 (1968) 317
A measurement of longitudinal photon contribution in pion electroproduction from protons, C. Betourne, C. Feautrier, J. Perez-Y-Jorba, D. Treille B5 (1968) 355
On the possibility of measuring the Σ^0-Λ transition magnetic moment in the reaction $\pi^- p \to \Lambda K^0 \gamma$, L. A. Kondratyuk, L. A. Ponomarev, V. I. Zakharov B5 (1968) 463
Anomalous nucleon magnetic moment sum rules without current algebra, R. G. Levers, A. N. Kamal B6 (1968) 32
Test of cross section sum rules for nucleon magnetic moments, K. Lewin B6 (1968) 41
Theory of photoproduction of pions from ^{11}B and ^{16}O, D. Griffiths, C. W. Kim B6 (1968) 49
Baryon electromagnetic transitions in the three-triplet model, G. Karl, E. Obryk B6 (1968) 102
Radiative corrections to β-decay including strong interaction effects, W. Jaus B6 (1968) 408
Non-forward photoproduction of ρ^0 mesons from complex nuclei, J. Fleischer B7 (1968) 47
Nucleon form factors from a sidewise dispersion relation, L. Grunbaum, D. Yu B7 (1968) 255
Analysis of single π^- and π^+ photoproduction on deuterium at high energies and low momentum transfers, K. Schilling B7 (1968) 498
Charge dependent effects of the photon-pion exchange process in the N-N interaction, J. S. Leung, Y. Nogami B7 (1968) 527
Analysis of the photoproduction of ω mesons, K. Schilling, F. Storim B7 (1968) 559
Vector meson dominance model and $\pi^\pm$ production by unpolarized and linearly polarized photons, M. Krammer, D. Schildknecht B7 (1968) 583
The effect of electromagnetic corrections to the strong interactions on the nucleon mass difference in a reciprocal bootstrap model, P. Lichard B8 (1968) 339
Photoproduction of negative pions on neutrons at photon energies between 0.2 and 2.0 GeV, H. G. Hilpert, P. Lauscher, M. Matziolis, H. Schnackers, H. Weber, A. Meyer, A. Pose, K. Böckmann, U. Idschok, K. Müller, E. Paul, E. Propach, H. Butenschön, H. Kübeck, D. Lüke, H. Seebeck, H. Spitzer, F. Storim, S. Brandt, O. Braun, P. Steffen, J. Stiewe, P. Schlamp, J. Weigl, K. Wilkinson B8 (1968) 535
The shape of mesons, S. Y. Lo B9 (1969) 10
Dispersion relations for electroproduction partial-wave amplitudes, G. v. Gehlen B9 (1969) 17
Photoproduction of pions on ^3He and ^3H, J. L. Sanchez-Gomez, P. Pascual B9 (1969) 153
On the photoproduction of the Δ^{++} isobar, A. F. A. Meyer B9 (1969) 244
K^- mesic X-rays from light nuclei, J. R. Rook B9 (1969) 441
Electromagnetic properties of the baryons in the Capps bootstrap model, M. Noga B9 (1969) 481
Invariant amplitudes and third-order low-energy theorem for nucleon Compton scattering, H. F. Jones, M. D. Scadron B10 (1969) 17
Nucleon electromagnetic form factors and the ρ^0, ω and ϕ resonances, V. Wataghin B10 (1969) 107
The connection of the deuteron form factor with the physical S-matrix, Yu. M. Shirokov, V. E. Troitski B10 (1969) 118

Photon-nucleus elastic and total cross sections, B. Margolis, C. L. Tang B10 (1969) 329

8.B.6. *Electromagnetic properties of mesons*

The effect of high-mass channels on electromagnetic mass differences of baryons and vector mesons, P. Lichard, J. Pišút B1 (1967) 511
Interaction of neutral K and electromagnetic fields - (I) Quantization of coupled fields, R. Spitzer B1 (1967) 613
Electromagnetic mass differences of pseudoscalar and vector mesons in bound-state bootstrap models, P. Lichard, J. Pišút B2 (1967) 8
Electromagnetic properties of mesons in the quark model, S. Ishida, K. Konno, P. Roman, H. Shimodaira B2 (1967) 307
Interaction of neutral K and electromagnetic fields - (II) K_0-$\bar{K}_0$ transitions in external fields, R. Spitzer B2 (1967) 479
The decays $K \to \pi\gamma\gamma$ and $K^+ \to \pi^+\pi^0$ in the η-pole approximation, G. Fäldt, B. Petersson, H. Pilkuhn B3 (1967) 234
The electromagnetic structure of the pion, J. E. Bowcock, Th. Kannelopoulos B4 (1968) 417
Radiative corrections to $K^\pm \to \pi^0 + \mu^\pm + \nu$ with finite neutrino mass, N. N. Wong B5 (1968) 47
Sum rules and the electromagnetic mass difference of pions, C. L. Cook, L. E. Evans, M. Y. Han, N. R. Lipshutz, N. Straumann B5 (1968) 140
On the radiative decay of the A_2 meson, A. Q. Sarker B5 (1968) 560
A soft-photon emission approach to $\Gamma(\eta \to 2\gamma)/\Gamma(\pi^0 \to 2\gamma)$ with SU(3)-symmetry breaking, A. Q. Sarker B6 (1968) 155
Direct evidence for the assignment of zero spin to the pi-minus meson, R. A. Carrigan Jr. B6 (1968) 662
Field-current identity, universality and $K_{\ell 3}$ decay, S. Y. Lo B7 (1968) 68
Radiative decay of boson resonances, A. O. Barut, K. C. Tripathy B7 (1968) 125
On the electromagnetic properties of the kaon, F. M. Renard B7 (1968) 183
Analysis of the photoproduction of ω mesons, K. Schilling, F. Storim B7 (1968) 559
Regge-pole description of the photoproduction of vector mesons, J. Daboul B7 (1968) 651
Phenomenological description of $K_S \to 2\gamma$ and $K_L \to 2\gamma$ decays, B. R. Martin, E. de Rafael B8 (1968) 131
Dispersion relations for electroproduction partial-wave amplitudes, G. v. Gehlen B9 (1969) 17
Radiative corrections to $\varphi \to K\bar{K}$ decay, E. Cremmer, M. Gourdin B9 (1969) 451
A calculation for the $e^+e^- \to \pi^0\gamma$ reaction, E. Cremmer, M. Gourdin B10 (1969) 179
Pion form factor and rho meson width, M. Roos, J. Pišút B10 (1969) 563

8.C. *Weak interactions*

Complex spin and decay $K_2^0 \to 2\pi$, S. S. Sannikov B2 (1967) 326
The decays $K \to \pi\gamma\gamma$ and $K^+ \to \pi^+\pi^0$ in the η-pole approximation, G. Fäldt, B. Petersson, H. Pilkuhn B3 (1967) 234

8.C.1. *General properties, symmetries*

The commutation of axial charge with axial divergence, M. A. Ahmed B1 (1967) 679
Current algebra and some non-strong mesonic decays, D. G. Sutherland B2 (1967) 433
Neutral K-meson decay and discrete symmetries, M. Gourdin B3 (1967) 207
Octet dominance in weak, electromagnetic and strong interactions, V. F. Müller, B. Stech B3 (1967) 465
Violation of *CP* invariance and non-leptonic decays, K. Nishijima, L. J. Swank B3 (1967) 553
Violation of *CP* invariance and the electric dipole moment of the neutron, K. Nishijima, L. J. Swank B3 (1967) 565
Currents with irregular charge-conjugation properties and the non-leptonic hyperon decays, P. Herczeg B4 (1968) 153
Second-class currents and the weak nucleon-nucleon interaction, R. J. Blin-Stoyle, P. Herczeg B5 (1968) 291
Spectral-function sum rules for currents carrying spin 2, S. Iwao B6 (1968) 71
Status of the Cabibbo theory, N. Brene, M. Roos, A. Sirlin B6 (1968) 255
Current-density, current-density commutation relations and the VVP couplings, C. S. Lai, P. D. De Souza B6 (1968) 649
Relation between *CP* violating parameters, J. Chela-Flores B7 (1968) 409
Perturbation theory of massive Yang-Mills fields, M. Veltman B7 (1968) 637
A new type of non-dynamical parity test for unstable particles, P. Kielanowski B7 (1968) 674
A model for weak currents and resulting Weinberg's sum rules, A. Burnel, H. Caprasse B8 (1968) 65
An alternative term of electron-muon universality, H. Pilkuhn B8 (1968) 500
First and second class weak hadronic currents and their implications for $K_{\ell 3}$ decays in an extended Cabibbo model, I. Bender, V. Linke, H. J. Rothe B9 (1969) 141
Form factor and mass corrections to weak decay amplitudes, A. O. Barut, S. Malin B9 (1969) 194
Note on the shape of the weak interaction Lagrangian, E. P. Shabalin B10 (1969) 40
Charge-symmetry violating effects of the photon-pion exchange process in Λ-N interaction, J. S. Leung B10 (1969) 233
Are there heavy leptons?, K. W. Rothe, A. M. Wolsky B10 (1969) 241
Weak mass splittings, J. M. Rawls B10 (1969) 323

8.C.2. *Neutrinos, intermediate boson*

Regularization in weak interaction theory and the Feinberg-Pais peratization method, S. G. Van der Wal, H. A. Tolhoek B3 (1967) 511
Electroproduction of intermediate bosons, A. Weis, P. K. Kabir B4 (1968) 643

8.C.3. *Baryon-lepton coupling, β-decay coupling*

Sum rules for axial-vector coupling-constant renormalization, S. Iwao B1 (1967) 117

On the calculation of the total muon capture rates for ^{6}Li and ^{7}Li, A. Lodder, C. C. Jonker B2 (1967) 383
The two-particle correlation function in a finite Fermi gas model, A. Bogan Jr., L. L. Foldy B4 (1968) 485
Radiative corrections to β-decay including strong interaction effects, W. Jaus B6 (1968) 408
A broken symmetry model for baryon leptonic decays based on asymptotic symmetries, P. P. Divakaran B7 (1968) 459
Four-body semileptonic decays of hyperons, N. Brene, A. B. Kræmmer, T. Vilhjalmsson B9 (1969) 543

8.C.4. *Meson-lepton couplings*

Eta decays with e^+e^- and $\mu^+\mu^-$ pairs, C. Jarlskog, H. Pilkuhn B1 (1967) 264
The decay $\eta \to \pi^0 \gamma e^+ e^-$, C. Jarlskog, H. Pilkuhn B3 (1967) 73
Analysis of K_{e4} decay, evidence for a vector current and its consequences, F. A. Berends, A. Donnachie, G. C. Oades B3 (1967) 569
SU(3) theory of the three-body leptonic decays of pseudoscalar mesons, P. Du T. Van der Merwe B3 (1967) 601
A measurement of the $\pi^+ \to \pi^0 + e^+ + \nu$ decay rate, P. Depommier, J. Duclos, J. Heintze, K. Kleinknecht, H. Rieseberg, V. Soergel B4 (1968) 189
Radiative corrections to $K^\pm \to \pi^0 + \mu^0 + \nu$ with finite neutrino mass, N. N. Wong B5 (1968) 47
Spectra of $K_{\mu 4}$ decays, K. Schilcher B5 (1968) 85
Radiative corrections to weak pion decays, H. Snellman B5 (1968) 220
Mesonic exchange effects in β decays, C. T. Yap B5 (1968) 369
Current algebra, spectral function sum rules and the $f_-(0)/f_+(0)$ ratio in $K_{\ell 3}$ decay, Riazuddin, A. Q. Sarker, Fayyazuddin B6 (1968) 515
$K_{\ell 3}$ decay form factors and current algebra, P. P. Srivastava B7 (1968) 220
$K_{\ell 3}$ form factors and the algebra of charges, H. D. Dahmen, K. D. Rothe, L. Schülke B7 (1968) 472
Four-body semileptonic decays of hyperons, N. Brene, A. B. Kræmmer, T. Vilhjalmsson B9 (1969) 543
Hard-meson current algebra analysis of the $K_{\ell 3}$ decay, R. Arnowitt, M. H. Friedman, P. Nath B10 (1969) 578

8.C.5. *Non-leptonic decays*

Radiative corrections to the non-leptonic Σ decays and the $\Delta I = \frac{1}{2}$ rule, C. Jarlskog B3 (1967) 365
Currents with irregular charge-conjugation properties and the non-leptonic hyperon decays, P. Herczeg B4 (1968) 153
Current algebra and $\eta \to 3\pi$, J. S. Bell, D. G. Sutherland B4 (1968) 314
Like pion spectra and non-linear effects in $K \to 3\pi$ decays, Sh. Eliezer, P. Singer B4 (1968) 607
S-wave non-leptonic hyperon decays and models of baryons, M. Nakagawa, N. N. Trofimenkoff B5 (1968) 93
On chiral algebra, meson dominance, and the soft-pion evaluation of g_ρ, R. Arnowitt, M. H. Friedman, P. Nath B5 (1968) 115
Algebra of fields and electromagnetic mass differences, V. F. Müller, J. Rothleitner B5 (1968) 373
$\eta \to 3\pi$ and possible large violation of partial conservation of axial vector current for π, Y. Fujii B7 (1968) 601

Sum rules for weak radiative decays of pseudoscalar mesons and the ratio F_K/F_π, C.S. Lai B9 (1969) 521
The phase difference between $K_L \to \pi^+\pi^-$ and $K_S \to \pi^+\pi^-$ decay amplitudes, A. Böhm, P. Darriulat, C. Grosso, V. Kaftanov, K. Kleinknecht, H.L. Lynch, C. Rubbia, H. Ticho, K. Tittel B9 (1969) 605

9. Cosmic Radiation

9.A. *General*

Abundances of kaons and η-mesons in high-energy cosmic ray collisions, H. Pilkuhn B4 (1968) 439
The momentum spectrum of muons at sea-level in the range 3-1000 GeV/c, S.R. Baber, W.F. Nash, B.C. Rastin B4 (1968) 539
The positive-negative ratio of muons at sea level in the range 3-360 GeV, S.R. Baber, W.F. Nash, B.C. Rastin B4 (1968) 549
Cosmic ray muon intensities at 80° to the zenith, N.S. Palmer, W.F. Nash B9 (1969) 315

9.B. *Passage of particles through matter*

On the Čerenkov light in 10^{12}-10^{14} eV extensive air showers, C. Castagnoli, M.A. Locci, P. Picchi, G. Verri B2 (1967) 369

10. News Items

10.A. *News items*

International conference on hypernuclear physics B10 (1969) 431

10.D. *Book reviews* B7 (1968) 330

10.E. *Errata*

On the binding of Σ^-nn, R.K. Bhaduri, Y. Nogami, W. Van Dijk B2 (1967) 316
The quasi-deuteron photodisintegration process in lithium, carbon and calcium, I.L. Smith, J. Garvey, J.G. Rutherglen, G.R. Brookes B2 (1967) 408
Meson-baryon scattering in a quark model, A. Deloff B3 (1967) 188
Electromagnetic mass splittings of mesons and baryons in the quark model, A. Gal, F. Scheck B3 (1967) 363
Dynamical algebra and potentials, J. Lanik B4 (1968) 432
A measurement of the $\pi^+ \to \pi^0 + e^+ + \nu$, P. Depommier, J. Duclos, J. Heintze, K. Kleinknecht, H. Rieseberg, V. Soergel B4 (1968) 432
Multiple-scattering corrections to the Johnson-Treiman relation in the quark model, N.W. Dean B6 (1968) 84
Causality and conformal invariance, L. Castell B7 (1968) 174
The decomposition of Bethe-Salpeter amplitudes into standard covariants and invariant amplitudes B7 (1968) 174
Nucleon-antinucleon potential from single-meson exchanges, R.A. Bryan, R.J.N. Phillips B7 (1968) 481

Analysis of the peripheral model for the process $p+p \rightarrow p+n+\pi^+$ at 0.5 - 0.7 GeV, V. C. Suslenko, V. I. Kochkin B8 (1968) 232

The reactions $\pi^- p \rightarrow \rho^0 n$ and $K^- p \rightarrow K^{*0}(890)n$ at 11.2 GeV/c, B. D. Hyams, W. Koch, D. C. Potter, J. D. Wilson, L. Von Lindern, E. Lorenz, G. Lütjens, U. Stierlin, P. Weilhammer B9 (1969) 460

Algebraic computation of radiative corrections for electron-proton scattering, J. A. Campbell B10 (1969) 190

Factorization quark model for large momentum transfer scattering (I), R. M. Weiner B10 (1969) 191

The reactions $K^- p \rightarrow K^- p$ and $K^- p \rightarrow \bar{K}^0 n$ between 600 and 1200 MeV/c, R. Armenteros, P. Baillon, C. Bricman, M. Ferro-Luzzi, D. E. Plane, N. Schmitz, E. Burkhardt, H. Filthuth, E. Kluge, H. Oberlack, R. R. Ross, R. Barloutaud, P. Granet, J. Meyer, J. P. Porte, J. Prevost B10 (1969) 432

NEW in Theoretical and Nuclear Physics

C. MAHAUX, University of Liège, Belgium, and
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Shell-Model Approach to Nuclear Reactions

1969. 359 pages. Hfl. 50.– (117s.).

This book presents a complete and detailed description of the shell-model approach to nuclear reactions. The various formalisms and methods of calculation of the scattering matrix are described and compared. In addition typical numerical results are physically interpreted. The theory is applied to the intermediate structure phenomenon, the optical model, the phenomenological coupled-channels approach for direct scattering, the DWBA and the isobaric analogue resonances. The authors also discuss the analysis of isolated or poorly overlapping resonances in excitation functions and exhibit the analytical properties of the *S*-matrix.

CONTENTS:

Introduction
Reminder of potential scattering
Definition of the model
The transition matrix
Coupled channels approach
Numerical applications
Analytical properties of the *S*-matrix
The *R*-matrix and eigenchannel methods
Intermediate structure
The optical model
The phenomenological coupled-channels approach and the DWBA
Analysis of experimental data
Conclusions
Open problems
List of symbols
References
Index

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